

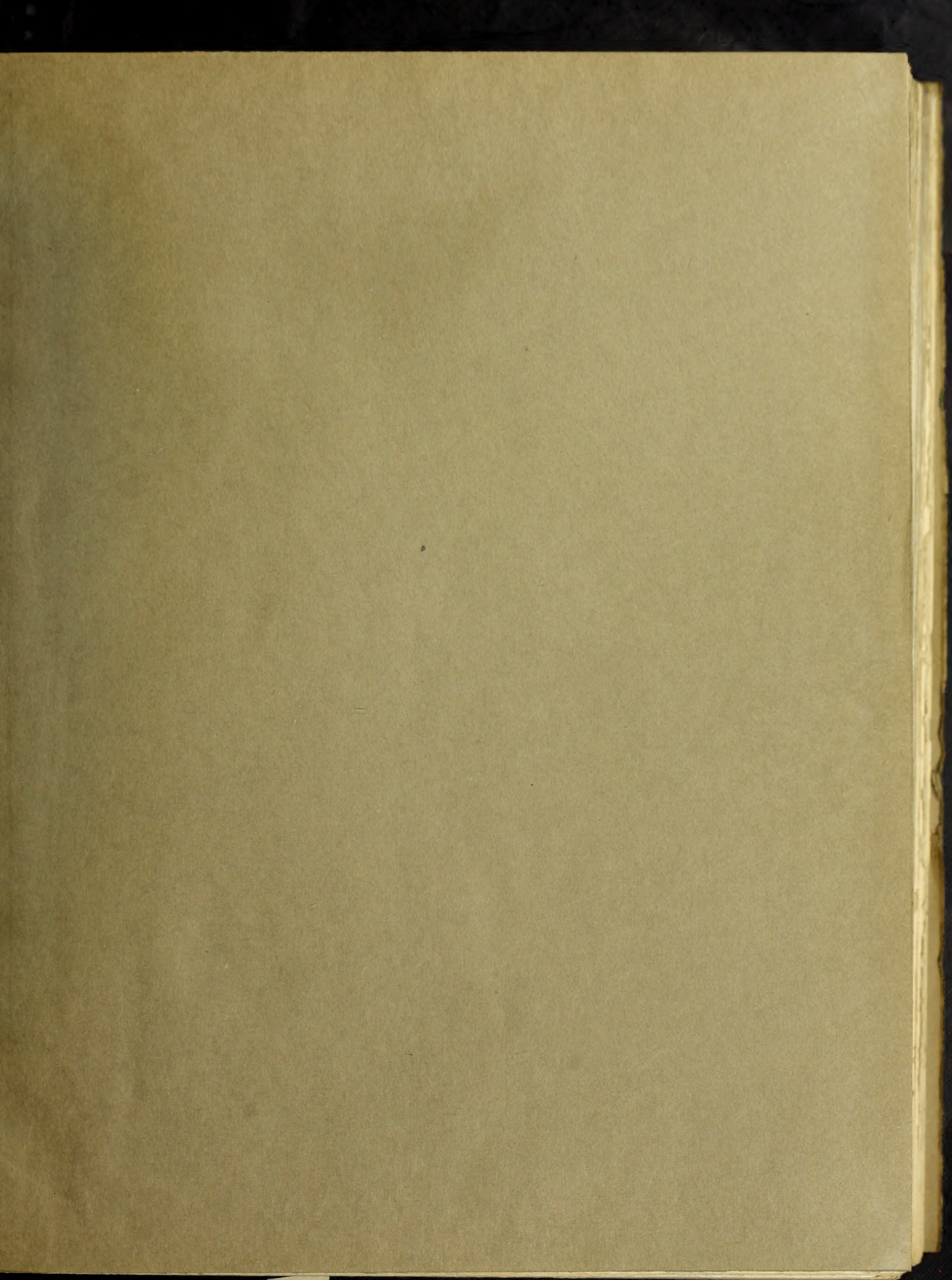
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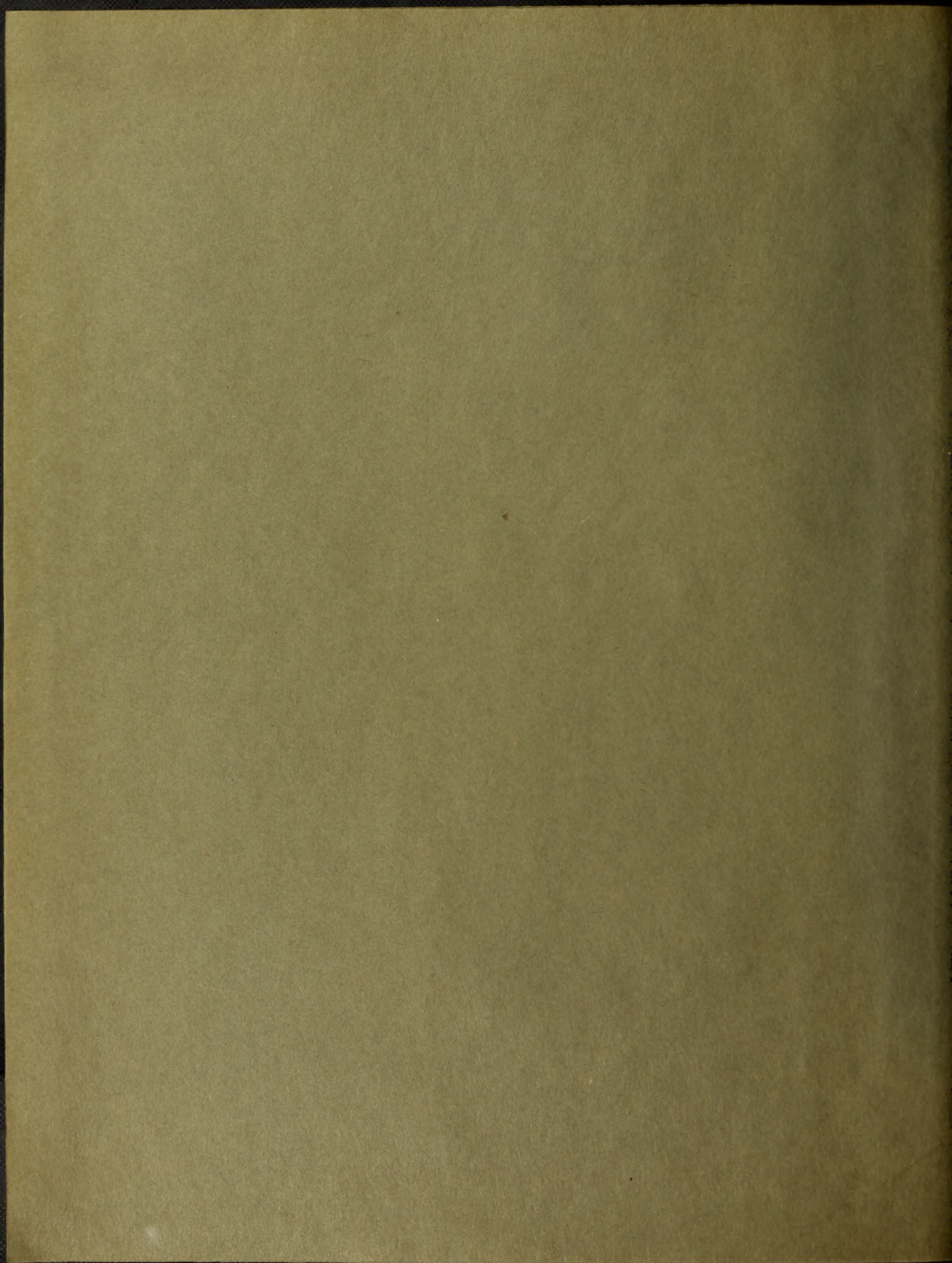
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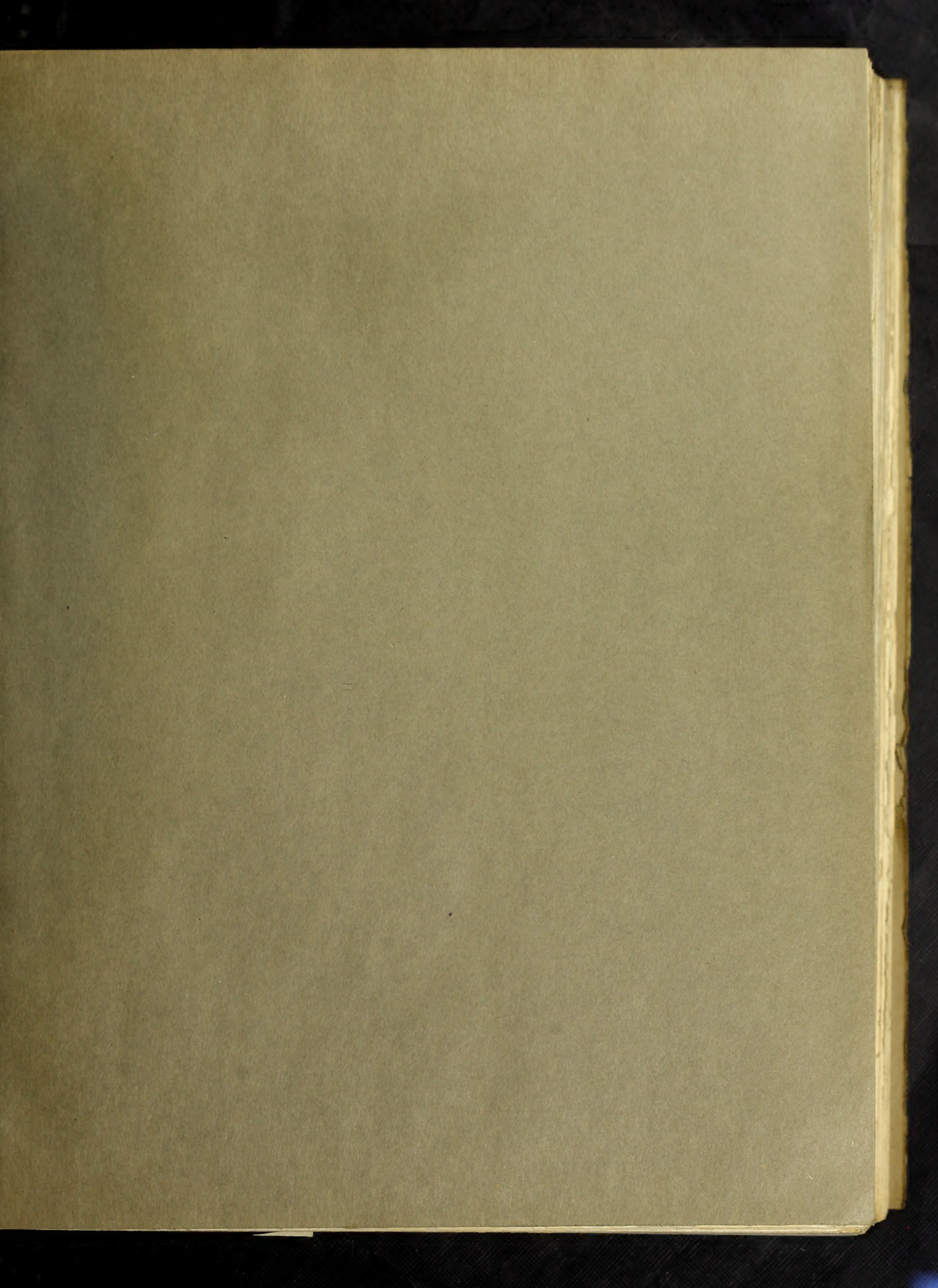




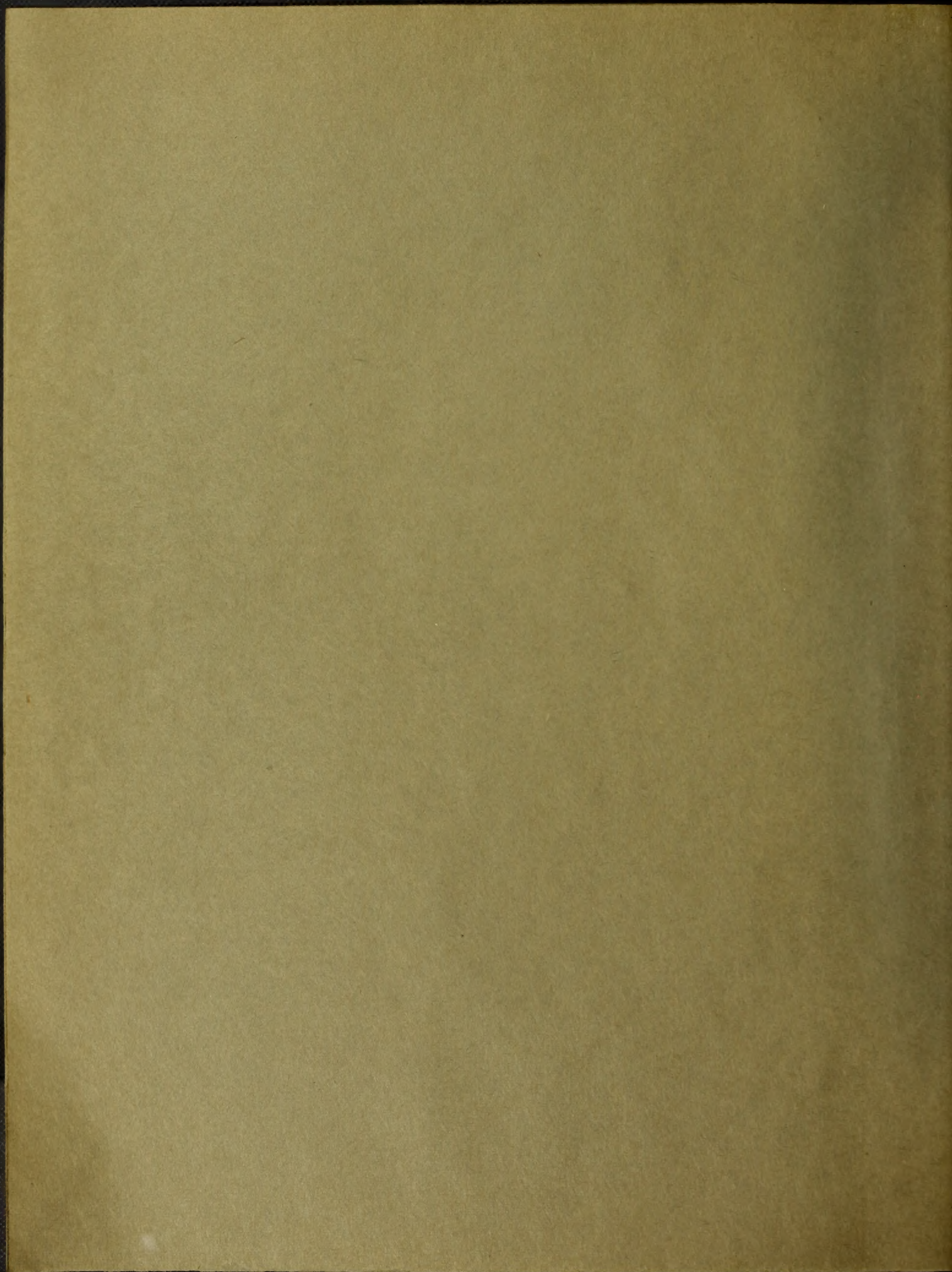














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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1900.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF  
WILLIS L. MOORE,  
CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,  
SECTION DIRECTOR.

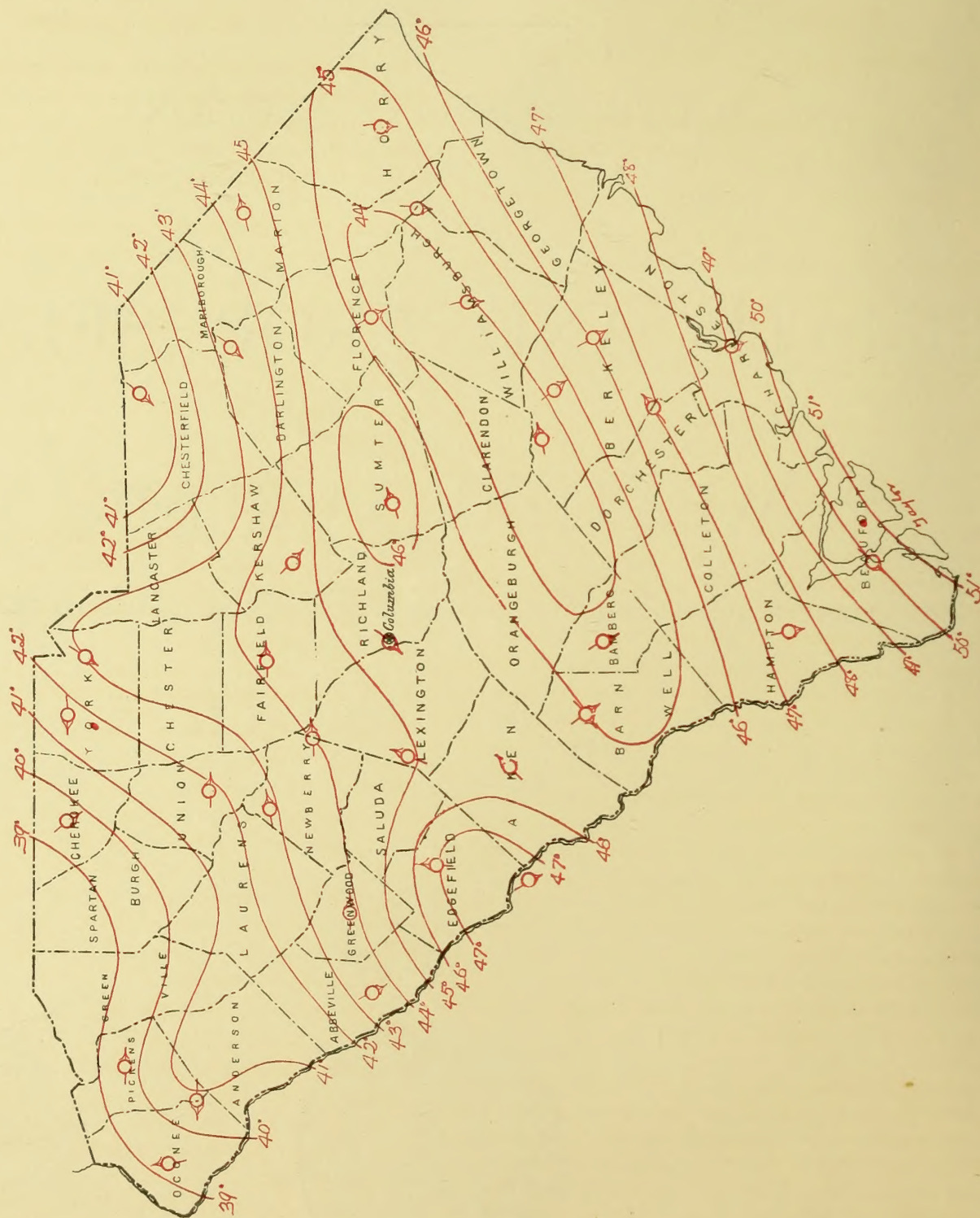


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JANUARY 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATE AND CROP SERVICE**  
 OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.  
 J. W. BAUER, Section Director,  
 COLUMBIA, S. C.

VOL. III. COLUMBIA, S. C., JANUARY, 1900. No. 1.

**CLIMATOLOGY FOR THE MONTH.**

**Temperature, in Degrees Fahrenheit.**

The mean temperature for the month of January, 1900, was 44.0°, which is 0.6° below the normal. The highest local mean was 51.0° at Beaufort, and the lowest local mean was 39.0° at Liberty. The highest temperature for the month was 75° at Beaufort on the 8th and 23d; the lowest temperature for the month was 3° at Liberty on the 2d, making the State range 72°. The greatest local range was 65° at Liberty, and the least local range was 46° at Charleston. The mean of the daily maximum temperatures was 54.6°, and of the daily minimum temperatures 33.5°.

**Precipitation, in Inches.**

The average precipitation for the State was 2.43 inches, which is 1.61 inches below the normal. The total precipitation amounted to from two to three inches over the western counties and over the eastern counties, while over the central counties it amounted to from one and one-half to two inches. The deficiency, or departure from the normal, was greatest over the western and central counties. Along the immediate coast, from upper Charleston county to the North Carolina boundary, the rainfall was in excess of four inches. The greatest local amount for the month was 5.65 inches at Georgetown; the least local amount was 1.58 inches at Statesburg. The greatest 24-hourly fall was 2.00 at Georgetown on the 11th. The average number of days with rain was 8, ranging from 13 at St. Stephens to 5 at Clemson College, Greenville, Liberty, Shaw's Fork, and Winnsboro.

**Snow.**—Snow fell on 4 days during January, 1900, as follows: early on the morning of the 1st, which was the ending of the snow storm that began on December 31, 1899; again on the 27th, 28th, and on the 30th. The snow storm of the 28th was the most general, but did not quite reach the extreme western portions of the State; it was heaviest in the eastern range of counties, where in places (Smiths Mills and Temperance) four to five inches fell. The snow storm of the 30th was generally confined to the eastern counties; heaviest in the northeastern portion of the State. The average depth of snow for the month was 2.5 inches, ranging from a mini-

mum depth of a mere trace to a maximum depth of 9.0 inches at Smiths Mills.

**Sleet.**—Light sleet occurred at a few points in the southeastern counties on the 28th and 31st.

**WEATHER AND CROPS.**

The month of January, 1900, began and ended with unusually cold weather, although no records of temperature extremes were broken. The intermediate period was warmer than usual, but not warm enough to unduly stimulate the growth of vegetation, or to cause the buds of fruit trees to swell.

During the first of the month, the ground was frozen to a depth of from 4 to 6 inches over the western and central counties, and was again frozen to a lesser depth on the last two days of the month.

The rainfall was generally below the normal except at a few points. There was a period of general rain from the 9th to the 12th; another from the 17th to the 20th, and scattered showers from the 25th to the close of the month.

The ground was in excellent condition to absorb the greater portion of the rainfall, thus lessening the ill effects of the deficiency. Precipitation occurred in some portion of the State on 19 days.

Wheat and oats were not materially injured by the freezing weather at the opening of the month, and if injured by the freeze at the close of the month, the damage was not apparent. Plowing was quite general during the month, in preparation for spring planting.

**MISCELLANEOUS PHENOMENA (with dates).**

**Weather.**—There was an average of 16 clear, 6 partly cloudy, and 9 cloudy days for January.

**Winds.**—The prevailing direction of the wind was from the west and northwest at 9 stations each, from the north and northeast at 8 stations each, from the southwest at 5 stations, and from the east and south at 2 stations each.

**High Winds.**—Beaufort, 12, 20, 31; Charleston, 11; Gillisonville, Longshore, Shaw's Fork, Winthrop College, 31; Holland, 29, 30, 31; Walhalla, 20, 25, 26, 29, 30, 31.

**Parhelion.**—Santuc, 30.

**Earthquake.**—Summerville, 14.

**Solar Halos.**—Charleston, 4, 17, 22, 25, 26; Santuc, 5, 22; Winthrop College (colored halo), 26.

**Lunar Halos.**—Blackville, 4, 5, 6, 16; Charleston, 5, 6, 16, 17, 25; Columbia, 16; Little Mountain, Santuc, 6; Shaw's Fork, 5, 6, 15; Statesburg, 5, 6, 16, 17; Walhalla, Winthrop College, 16.

**Thunderstorms.**—Beaufort, 17; Blackville, Clemson College, Liberty, Santuc, Shaw's Fork, Winthrop College, 11; Longshore, 10, 11; Spartanburg, 12; Summerville, 16, 17; Walhalla, 10.

**Dense Fog.**—Beaufort, 10, 11, 19; Blackville, 10, 11, 17, 19, 25; Camden, 8, 25; Charleston, 10, 11, 18, 19, 23, 24; Cheraw,



Columbia, St. Stephens, 19; Clemson College, Winthrop College, 10; Conway, 10, 19, 25; Gillisonville, 10, 16, 17, 19, 22, 23, 25, 26; Liberty, 20; Statesburg, 10, 11, 19, 25; Walhalla, 9, 10, 19.

#### REMARKS BY OBSERVERS.

Batesburg.—January has been a pleasant month. Farmers have begun to prepare their lands. Small grain is looking well.—E. J. Hite.

Trenton.—Light snows on the 1st, 27th, and 28th but melted as it fell. Precipitation 1.93 less than the 7-year average for January. Last of the month cold and windy. To what extent oats were damaged is not known.—C. A. Long.

Santuc.—The month was generally very favorable for outdoor work, but farmers did practically no plowing. The freeze during the first week, killed many oats, especially the youngest planted. Stock suffered but little from the cold, and so far has wintered well.—E. W. Jeter.

Longshore.—Thunder clouds on the nights of the 10th and 11th. On the 14th there was a bright meteor early in the evening, in the northwest. Fifteenth: At 3 a. m. my room was lighted up as if by an electric light, followed by a roaring sound coming from the west and moving towards the north-northeast. Suppose it was a meteor.—W. G. Peterson.

Gillisonville.—January began and closed with very severe weather. From the 1st to the 5th the ground was frozen to a depth of 3 inches. From the 6th to the 26th, the weather was very pleasant. Flurries of snow and sleet during the afternoon of the 27th. Snow and rain during the early morning of the 31st. Farm work was commenced. Lands were cleaned and plowing begun. Oats stood the severe weather of the early portion of the month very well.—Sam. P. Saltus.

#### PORTO RICO.

Soon after the United States took possession of Porto Rico the Weather Bureau established a regular observing station at San Juan, and organized a Climate and Crop Service similar to those in the different sections in this country, with weekly climate and crop bulletins, and a monthly report of the observations of voluntary observers. There were 34 voluntary observing stations in operation at the close of the year 1899. An inspection of the names of the voluntary observers would indicate that 20 of them were natives of the island, by their Spanish origin, 4 doubtful, and the remainder Americans.

A comparison, taken from the July and December data of monthly reports, is interesting. It shows the mean temperature for July to have been 79.3°, and for December it was 73.9°, a difference of only 5.4°. Compare this with like data for the same months in South Carolina, where we find the

July mean temperature 80.0°, and for December 44.6°, difference 35.4°, and we can see how little variation of temperature the changes of season bring to favored Porto Rico.

The highest and lowest temperatures, for July, in Porto Rico were 95° and 58°, respectively, and for December 94° and 46°. In South Carolina the highest July temperature was 105°, or 10° hotter than Porto Rico, and the lowest was 47°, or 11° lower than in Porto Rico. The December comparison is equally striking, for South Carolina had a maximum of 78° and a minimum of 11°. In Porto Rico the minimum did not fall below the active growing point for ordinary vegetation, even on the coldest day. The highest station, nearly 2,000 feet above sea-level, had a minimum of 49°.

It will be seen that the growing season never ends on the island, but there are nevertheless serious problems in agriculture there as elsewhere, for the rainfall is a variable factor, and droughts prevail when the need of rain is manifest, and at other times excessive rains are damaging to some one or other of the many crops cultivated, while the visitation of a hurricane, such as occurred on August 8, 1899, destroys the fruits of a seasons's labor—or of years—in a few terrible hours.

#### NOTES AND COMMENTS

The present weekly European consumption of cotton is 160,000 bales of 500 pounds each, which is at the same rate as during the year 1899. The estimated supply from the East Indies for the year ending September 30, 1900, is 500,000 bales, from Egypt 780,000 bales, sundries 200,000, and from America 5,925,000 bales.

#### ANCESTRY SEEDS.

In order to properly appreciate the value of seed, its pedigree must be known. But seed of ancestry, that has a long-established character for certain qualities, in a given locality, may prove of little value under widely different circumstances, or, if its products be cultivated under new conditions, it may lose its characteristics more or less, and develop into other varieties. It is well known that various perennial plants of tropical climates, like the castor bean, become annuals in northern latitudes, and it may easily happen that the seed of some prized variety which is of unquestioned pedigree, as far as the remote lines of its descent can indicate, is of little worth in soils or climates to which it is unaccustomed, from not having the power to transmit the specially valuable qualities of its progenitors. In high, northern latitudes, the summer cereals ripen after a short period of rapid growth, but seed of such grain, sown in the soil of temperate regions, does not produce early varieties; its rate of growth, after a few years at most, is governed by the climate to which it is exposed. In considering the pedigree of seed, therefore, it is not merely the repute or characters of the ancestry, but the probability that the ancestral excellencies reside in and will be transmitted by the seed, that constitutes the practical point.—*How Crop Grow.*



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1900.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall. (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Allendale	Barnwell	186	12	44.7		68	*12	15	*2	44	2.20	-0.55	0.95	3.0	6	20	2	9	.....	B. F. Wilson.
Augusta, Ga.	Richmond	134	20	45.0	-2.0	60	16	15	2	33	1.65	-2.61	0.43	0	11	16	6	9	nw.	Weather Bureau.
Batesburg	Lexington	656	12	44.0		60	16	12	*2	37	2.05		0.64	0.7	8	10	5	7	sw.	E. J. Hite.
Beaufort	Beaufort	28	14	51.0	+0.8	75	*8	23	2	36	3.06	+0.40	1.42	0	7	16	6	9	ne.	S. M. Benton.
Blackville	Barnwell	213	12	45.7	-0.3	72	16	13	2	36	1.73		0.38	3.3	10	12	16	3	ne.	G. D. C. Lange.
Calhoun Falls	Abbeville		7								2.52		0.87	0	7	22	0	9	nw.	P. J. Pfeiffer.
Camden	Kershaw	222	34								1.85	-1.41	0.93	2.9	10	13	6	12	nw.	B. Ammons.
Charleston	Charleston	52	31	49.9		69	25	23	2	23	3.10	-0.62	1.07	T.	11	12	9	10	n.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	22	41.4	+0.3	67	16	4	2	32	2.15	-2.43	1.05	T.	7	19	6	6	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	144	12	40.5	-2.3	66	16	14	2	33	1.28	-2.08	0.60	2.5	6	15	0	16	ne.	W. R. Godfrey.
Cheraw (2)		87	7								1.68	-1.03	0.58	5.5	8	14	8	9	ne.	Jno. H. Powe.
Clemson College	Oconee	850	9	41.1		68	16	8	2	46	2.80	-1.86	1.57	0	5	17	7	7	e.	Prof. C. C. Newman.
Columbia	Richland	330	13	45.2	-1.2	72	16	15	2	37	1.57	-2.23	0.72	0.9	9	13	7	11	ne.	Central Office.
Conway	Horry	40	9								3.32	-0.46	0.87	6.5	9	13	6	12	n.	P. Quattlebaum.
Darlington	Darlington	175	5								1.82		0.70	2.5	7	14	11	6		E. R. Melver.
Edisto	Bamberg	127	7								2.18	-1.03	0.70	3.1	9	16	6	9	nw.	Miss Jerry Carter.
Fairbairn	Florence	100	8								1.85	-1.38	0.40	4.0	9	14	8	9	nw.	A. J. Howard.
Fairbluff, N. C.	Columbus		6								3.20		0.87	6.5	8	15	6	10	n.	I. M. Powell.
Florence	Florence	156	12	44.0	+0.5	65	*17	13	2	38	1.91		0.65	0.3	9	17	3	11	n.	H. K. Gilbert.
Gaffney	Cherokee		4								3.16		1.55	0.9	9	14	5	12	nw.	B. F. Camp.
Georgetown	Georgetown	12	7	45.8	-2.0	70	23	18	*2	32	5.65	+2.22	2.00	0	8	23	0	8		W. T. Turbeville.
Gillisonville	Hampton		5	47.3	-1.1	60	*15	16	2	40	2.24		0.91	T.	6	16	5	10	n.	Sam P. Salts.
Greenville	Greenville	1,000	8	39.1	-1.8	68	16	8	2	41	2.88	-1.87	1.60		5	21	2	8		Mrs. S. A. Crittenden.
Greenville	Greenville	671	12	41.0	-0.8	67	16	10	*2	34	2.16		0.82		6	17	1	13	w.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	8	38.1	+3.1	61	16	3	2	44	4.28	-3.48	1.33	T.	5	10	5	7	sw.	B. C. Hawkins.
Holland (a)	Anderson		12	39.2	-2.5	66	16	6	*2	44	2.70	-3.47	1.08	0	6	22	5	4		Dr. J. W. Earle.
Kingstree (1)	Williamsburg	77	12	43.8		67	*16	14	3	35	2.62	-0.73	0.95	5.7	9	13	7	11	n.	C. J. Lesesne.
Kingstree (2)			6								2.62		0.95	5.7	9	13	7	11	n.	Jos. W. Arms.
Liberty	Pickens		6	39.0	-2.2	68	16	3	2	30	3.25		1.10		5	20	4	7	-w.	Jno. T. Boggs.
Little Mountain	Newberry		7	44.3	-1.2	60	16	11	2	36	1.84	-1.70	1.02	0.5	8	12	13	6	w.	John M. Sease, M. D.
Longshore	Newberry	530	7	43.2	+0.9	70	16	9	2	37	2.02	-2.49	0.73	0	7	15	6	10	w.	W. G. Peterson.
Pinopolis	Berkeley		7	47.0	-0.6	66	*11	20	*2	24	2.69	-0.64	0.73	0.2	6	11	7	13	nw.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	14	42.6	+2.0	68	16	11	2	33	2.95	-0.89	1.03		11	15	7	9	sw.	Weather Bureau.
St. Georges	Dorchester	100	12	44.6	-2.2	68	11	12	*2	39	2.02		0.01	4.2	10	15	7	9		W. B. Rayson.
St. Matthews	Orangeburg		12	44.9		74	16	11	3	39	1.07		0.60	4.6	10	15	6	10		J. S. Wannamaker.
St. Stephens	Berkeley	74	8								2.70	-0.60	0.50	0	13	12	7	12	nw.	C. T. Shuler.
Santee (a)	Union	512	7	41.8	-0.8	60	16	8	2	40	1.01	-2.01	1.22	T.	7	12	11	7	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	31	49.9	-1.0	72	23	22	2	27	3.16	+0.30	2.16	0	10	15	5	11	n.	Weather Bureau.
Shaws Fork	Aiken	500	7	38.4	-7.8	61	17	15	3	25	1.69		0.38	T.	5	17	10	4	sw.	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	5								3.12		1.00	9.0	9	15	7	9	n.	H. van Keuren.
Society Hill	Darlington	192	9	44.0	+1.0	65	16	15	*1	26	1.63	-1.67	0.86	3.0	6	9	20	2	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	9	39.6	-2.8	71	26	10	2	47	2.71	+0.18	0.89		7	19	1	11		F. P. Robinson.
Statesburg	Sumter	500	20	46.8	+1.5	71	16	14	2	31	1.56	-2.03	0.72	1.3	10	14	7	10	w.	W. W. Anderson, M. D.
Summerville	Dorchester		3	47.6		72	*23	13	2	32	3.31		1.17	1.5	9	17	5	9	sw.	Prof. Jno. Gadsden.
Temperance	Marion	100	2	45.4		70	25	15	2	31	2.00	-1.99	0.70	4.6	6	14	9	8	w.	J. R. Reaves.
Trenton	Edgefield	620	7	47.2	-0.3	66	16	11	3	41	2.23	-1.54	0.68	0.7	8	17	5	9	w.	C. A. Long.
Trial	Berkeley		14	39.6	-4.2	68	*14	5	1	41	2.86		1.50	0	6	20	6	5	s.	Etsell Gaillard.
Walhalla	Oconee	1,051	10	39.6	-2.9	70	25	16	2	31	6.24	+2.57	2.85		10	16	4	11	w.	Weather Bureau.
Wilmington, N. C.	New Hanover	52	31	47.4	+0.2	71	23	11	2	25	1.61	-1.87	0.92	0.1	5	24	3	4	w.	John W. Seigler.
Winnboro	Fairfield	545	11	43.2	0	74	12	11	2	25	1.61		0.88	0.3	8	16	6	9	ne.	Prof. Cleve'nd Abbe, jr.
Winthrop College	York	690	1	43.1		69	*16	18	2	30	2.80		1.35	3.0	8	15	4	12		R. G. Smith.
Yemassee	Beaufort		5	47.5		71	16	12	2	38	2.29	-1.75	1.07	0.2	8	16	7	8	e.	J. R. Schorb.
Yorkville	York	680	12	44.9	+2.0	75	*8	3	2	47	2.43	-1.61	2.00	2.6	8	16	6	9	nw.	
MEANS—highest, lowest and dates, etc.																				

a, b, c, etc., indicate number of days missing, with values as follows: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., 2 and 9 p. m. observations.

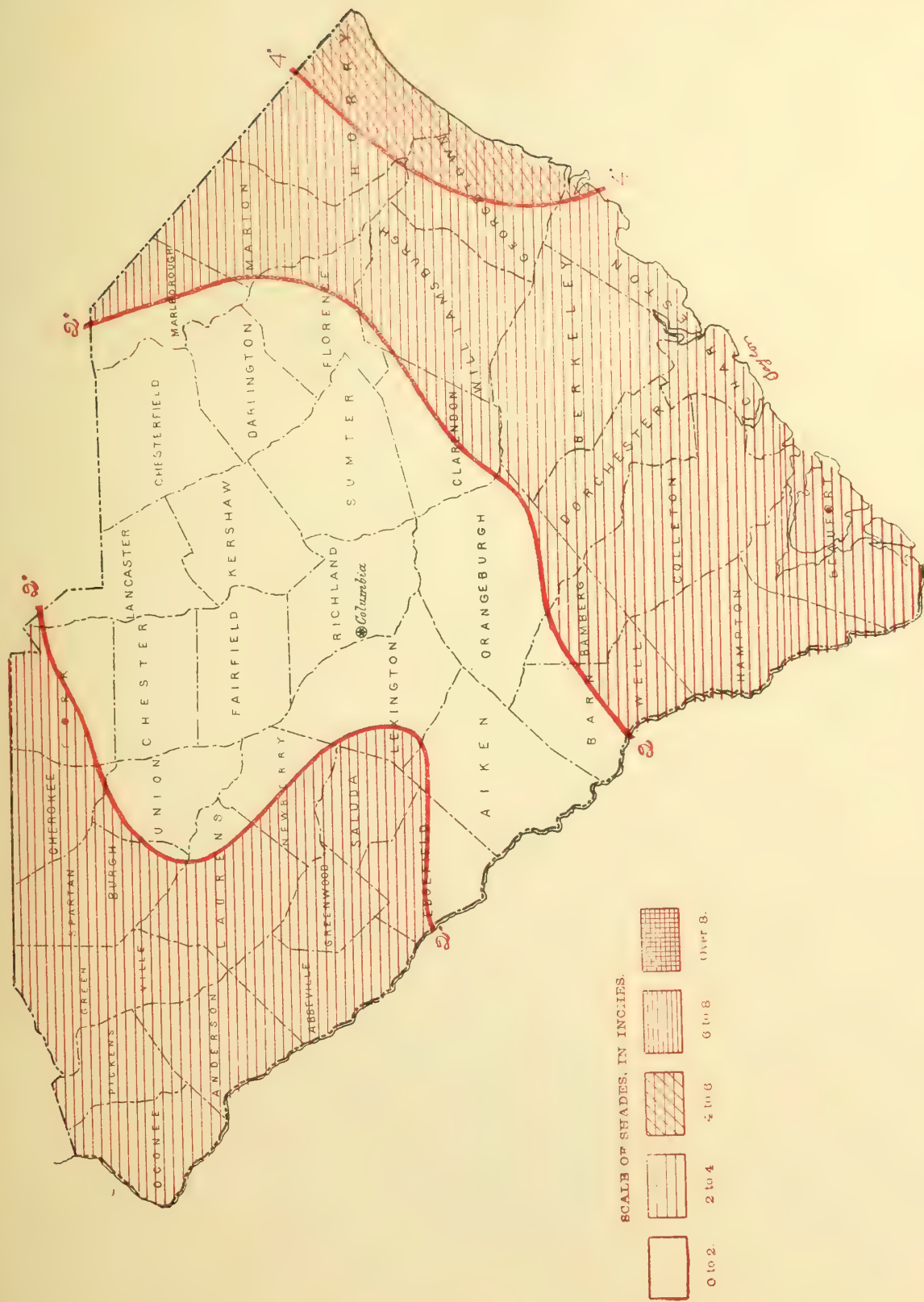


### CITATIONS.

a Temperatures from 2 P. M. and 7 A. M. observations.



# TOTAL PRECIPITATION FOR JANUARY 1900.



SCALE OF SHADES, IN INCHES.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JANUARY, 1900.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Allendale .....	.30									.95	.30	.10						.20	.15	.20												1.90	
Augusta, Ga. ....	.02								.08	.04	.64	.06						.27	.43	†					.01		.03	.01			.03		1.65
Batesburg. ....	.05								.25	.65	.45	†						.05	.25	.25								.10				2.05	
Beaufort .....									.34	.20	.41							1.42	.29						†		.17			.23		3.06	
Blackville .....	.36								.21	.13	.38	†						.08	.02	.13					.02	†		.37			.03	1.73	
Calhoun Falls .....									.07	.75	.87							.26	.09	.40						.08						2.52	
Camden .....	.30								.25	.01	.93	.03						.06	.03	.70								.08	.03	†		1.85	
Charleston .....	.09								.20	.22	.67	.01						.79	.46	.14				.03			†	.25	†		.24	3.10	
Charlotte, N. C. ....									.41	1.05	.12							.08	.21	.20					†				.08			2.15	
Cheraw(1) .....	†								.20	†	.60	.10						†		.25								.10	.03			1.28	
Cheraw(2) .....	.26								.20	†	.58	.12						†	.10	.12						†		.26	†	.04		1.68	
Clemson College. ....									.10	.36	1.51	.06						.38	.31													2.80	
Columbia .....	.05								.03	.23	.72	.01						.10	.16	.18						†		.06	†			1.57	
Conway .....	.15								.35	.15	.50	.04							.87	.49					†	†			.70	.07		3.32	
Darlington, near .....									.27	.25	.70						†	.12	.20						†			.23		.05		1.82	
Edisto .....	.05								.45	.10	.70	.06							.14	.36								.10			.22	2.18	
Effingham .....	.20								.40	.20	.45	.10						†	.05	.20						†		.15		.10		1.85	
Fairbluff, N. C. ....	.05								.36	.12	.75	.03							.66	.63								.60		†		3.20	
Florence .....	.16								.65	.10	.55	.02						†	.15	.16					.02	†		.10				1.91	
Gaffney .....	.05								.52	.20	1.55	.08						.37	.27	.40						†		.0	†			3.46	
Georgetown .....									.25	.50	2.00							1.25	.50								.25	.40	.50			5.65	
Gillisonville .....									.39	.28	†								.47					†			.12				.07	2.24	
Greenville .....										.51	1.60							.22	.10	.12												2.88	
Greenwood .....									.32	.59	.82							.07	.09	.27												2.16	
Horse Cove, N. C. ....	†								.03	.50	1.83							.93	.99	†					†		†				†	4.28	
Holland .....									.65	1.08	.28							.32	.35						.02							2.70	
Kingstree(1) .....	.31								.43	.12	.83	.03						†	.23	.19								.25	†	.20		2.62	
Kingstree(2) .....	.36								.42	.13	.85	.02						†	.21	.20								.22	†	.21		2.62	
Liberty .....									†	.35	1.03	1.10						.31	.46						†							3.25	
Little Mountain .....									.04	.07	.84	.18						.20	.45						.03		.03		†			1.84	
Longshore .....									.25	.42	.73						.13	.12	.31						.06							2.02	
Pinopolis .....									.73		.43								.43	.30								.60	.20			2.69	
Raleigh, N. C. ....									.60	1.03	.36							.26	.15	.30	.01				.06	.01		.12	.05			2.95	
St. Georges .....	.20								.25	.10	.81	.04						.10	.10	.20								.12	†	†	.10	2.02	
St. Matthews .....	.25								.50	.10	.50	.05						.06	.10	.15						†		.18	†	†	.08	1.97	
St. Stephens .....	.28								.42	.10	.50	.05						.32	.12	.33				.03	.08			.15	†	.22	.10	2.70	
Santuc. ....									.17	1.05	.17							.15	.25	.01					.05							1.94	
Savannah, Ga. ....	.04								.25	.09	.27	†					†	2.16	.28	.05				†		†	.03	.10			†	3.16	
Shaws Fork .....									.26	.98	.05							.09	.31													1.61	
Smiths Mills .....	.30								.20	.22	1.06	.04							.30	.50					†	†		.6	†		.20	3.12	
Society Hill .....								.23			.86	.06							.22										.26			1.63	
Spartanburg .....									.50	.37	.81	.10						.10	.43	.35												2.74	
Statesburg .....									.08	.11	.72	.02						.07	.22					.10	.04		.15		.02			1.56	
Summerville .....									1.17	.10	.47							.45	.09	.35				.10		.10		.38		.20		3.31	
Temperance .....									.62		.70						.10	.35										.40	.10			2.27	
Trenton .....	.07								.04	.06	.74	.07							.28	.63					.01							2.00	
Trial .....	.13									.68	.40							.25	.20						†	.01		.40		.15	.02	2.23	
Walhalla .....									†	1.50	.61								.75													2.86	
Wilmington, N. C. ....	.06								.16	1.68	.11							.04	2.85	1.22				.01				.03	†		.08	6.24	
Winnsboro .....										.92	.12							.37	.10									.10	†			1.61	
Winthrop College .....									.17	.88	.17							.14	.14	.13					.03				.03			1.69	
Yemassee .....	.39								.38	.12	.20							1.35	.12	.22						†		.15			†	2.89	
Yorkville .....									.15	1.07	.30							.24	†	.32	.16					.03			.02			2.29	

\* Precipitation included in that of the following day.

† indicates trace, less than 0.01 inch.



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U.S. 89.  
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1900.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

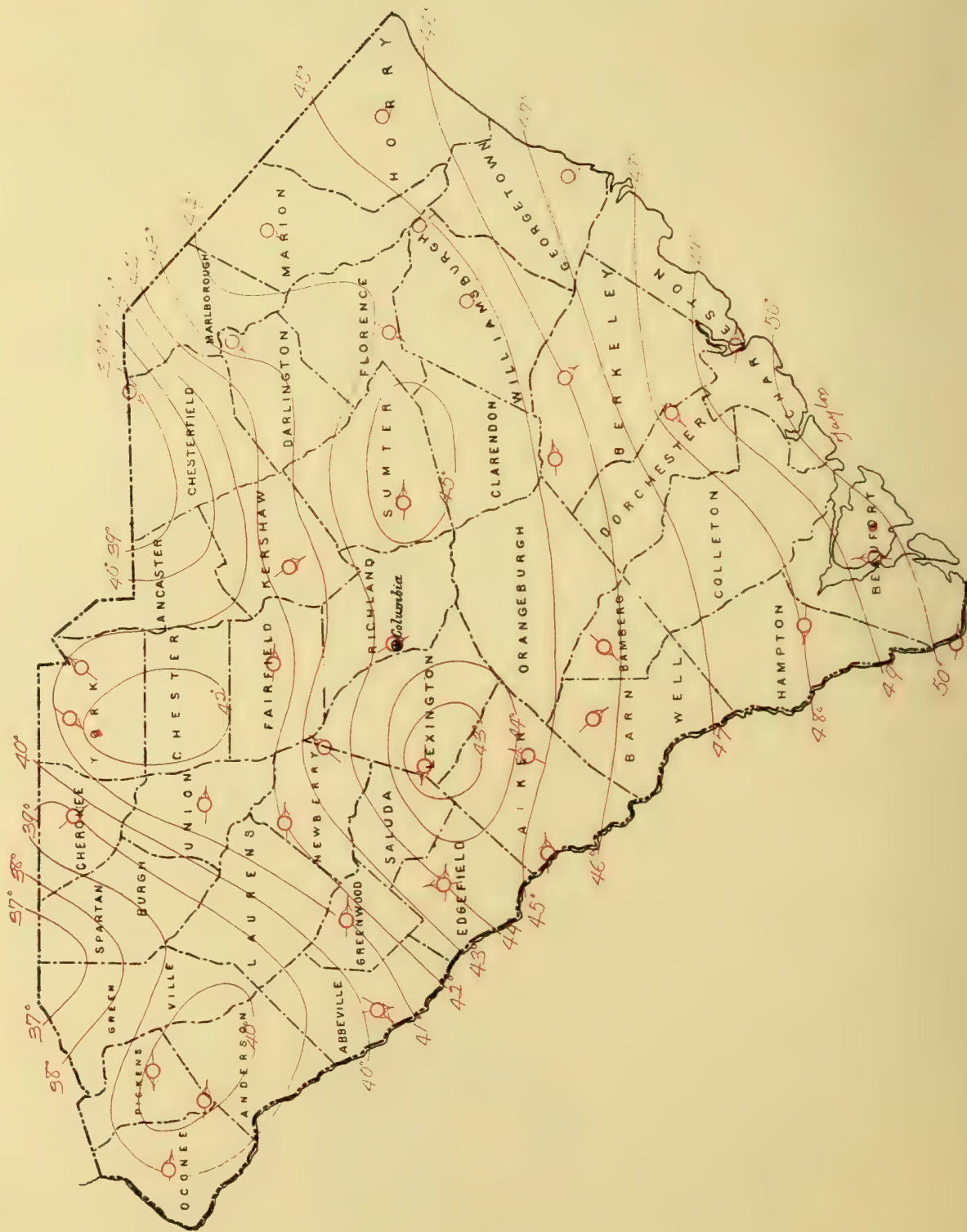


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR FEBRUARY 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. III. COLUMBIA, S. C., FEBRUARY, 1900. No. 2.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for the month of February, 1900, was 44.0°, which is 2.3° below the normal. The highest local mean was 49.6° at Beaufort, and the lowest local mean was 37.4° at Greenville. The highest temperature for the month was 78° at Georgetown on the 8th, and the lowest temperature for the month was 1° at Liberty on the 1st, making the State range 77°. The greatest local range was 68° at Liberty, and the least local range was 53° at Cheraw. The mean of the daily maximum temperatures was 53.9°, and of the daily minimum temperatures 34.0°.

## Precipitation, in Inches.

The average February, 1900, precipitation for the State was 5.77 inches, which is 1.37 inches above the normal. The precipitation was heaviest in the western portions of the State, where it was, in places, double the usual amount, and it was least in the southeastern portion where, in places, it was about half the usual amount. The greatest local amount for the month was 10.61 inches at Holland, and the least local amount was 1.86 inches at Yemassee. The greatest 24-hourly fall was 2.83 inches at Trenton on the 10-11th. The average number of days with rain was 10, ranging from 14 at Greenville, Santuc, and Winthrop College to 6 at Georgetown.

Snow—The snowfall for the month was generally light, and occurred on the 17th, except that a few places had flurries of snow on other dates. The snowstorm of the 17th covered practically the entire State, but the snowfall was light except at Greenville and Spartanburg, from which points depths of 2 inches were reported, while at other points in the western portions of the State the depth ranged from an inch and a half downward to a mere trace. The snow melted quickly, and afforded no protection to the grain crops. The average depth of snowfall for the month was 0.4 of an inch, ranging from "T" to 2 inches.

Hail.—Hail was noted at Greenville on the 4th, and at Batesburg, Liberty, Little Mountain, Longshore, Society Hill, Statesburg, Trenton, and Winthrop College on the 21st.

Sleet.—Sleet occurred at Holland and Santuc, 28; Liberty,

10, 28; Longshore and Winthrop College, 10; Spartanburg, 17, 28.

## MISCELLANEOUS PHENOMENA (with dates).

Weather.—There was an average of 9 clear, 7 partly cloudy, and 12 cloudy days in February.

Winds.—The prevailing direction of the wind was from the west at 14 stations, from the northwest and northeast at 10 stations each, from the southwest at 4 stations, from the east at 3 stations, and from the south at 2 stations.

Solar Halos.—Beaufort, 20; Charleston, 4, 5, 12, 15, 16, 20, 21, 23; Santuc, 14; Statesburg, 20.

Lunar Halos.—Blackville, 4, 6, 15; Charleston, 4, 12, 13, 15, 16; Gillisonville, 9, 12; Santuc, 6; Statesburg, 6, 7; Winthrop College, 4, 26.

High Winds.—Beaufort, 17, 21, 24, 25, 27, 28; Blackville, 4, 17, 21, 24; Charleston, 4; Columbia, 17, 24; Gillisonville, 17, 28; Holland, 24, 25; Little Mountain, 13; Longshore, 12, 22, 24, 25; Shaw's Fork, 22, 24, 25; Summerville, 24, 25, 28; Temperance, 24; Walhalla, 24, 25, 26, 27.

Thunderstorms.—Batesburg, Blackville, Clemson College, Statesburg, and Winthrop College on the 21st; Beaufort and Gillisonville, 9, 21; Charleston, 9, 13, 21; Columbia and Society Hill, 11, 21; Gaffney, Santuc, and Yorkville, 21, 24; Liberty, 24; Little Mountain and Trenton, 11, 21, 24; Longshore, 8, 11, 21; Shaw's Fork, 11, 12, 21; Walhalla, 8, 21.

Fogs, dense.—Beaufort, Columbia, and Santuc, 8, 12; Blackville, 8, 12, 16; Camden, Cheraw, Conway, Edisto, Effingham, Greenville, Kingstree, Little Mountain, St. Stephens, and Yorkville, 8; Charleston, 7, 8, 9, 10, 12; Clemson College, 8, 10; Gillisonville, 6, 7, 8, 12, 16, 17, 26; Shaw's Fork, 10, 11, 12; Society Hill, 8, 11; Statesburg, 12; Walhalla, 8, 12, 13.

## WEATHER AND CROPS.

The month of February, 1900, was much colder than usual, with three well-defined cold waves, one on the 1st of the month, the second on the 18th, and another on the 25-26th. The coldest weather of the month generally occurred during the second period, although at a few places it was coldest on the first. The temperature extremes were within previously recorded limits. There were comparatively few days on which the temperature rose above the normal, and the average mean was below the active growing point, over the greater portion of the State.

The rainfall was heavy, and in excess of the normal amounts, over the extreme western portions of the State, where, in places, it amounted to over ten inches, with gradually decreasing amounts toward the coast, where there was less than the usual amount, although the deficiency was not large enough to be harmful.

The weather conditions were unfavorable throughout the month for farming operations, and the severe cold of the 18th killed much truck of all kinds in the coastal regions. The ground was generally too wet to plow, and few, if any, spring



oats were sown, while reports from all sections of the State indicate that fall sown oats were badly damaged, especially on light, sandy soils. Many such fields will be plowed up and devoted to other crops. Wheat withstood the severe weather and, although small, remains promising.

Over the greater portion of the State, the buds of fruit trees showed no signs of swelling, and are probably uninjured. In the extreme southeastern portion of the State plum trees began to blossom on the 10th of the month, but other fruits, especially peaches, had not begun to bloom at the close of the month. It is believed that the fruit prospects are as yet unimpaired.

General farm work is later than usual. No corn was planted during the month, and gardening was impracticable owing to the coldness and wetness of the soil.

#### REMARKS BY OBSERVERS.

Little Mountain.—Small grains, especially oats, are badly damaged. It is estimated that one-half the oats crop is killed. No plowing has been done.—Jno. M. Sease, M. D.

Batesburg.—February has been a very unpleasant month. But little farm work has been done, and very little gardening. Had light snow on the 17th, and heavy hail on the 21st.—E. J. Hite.

Beaufort.—February has been cold and trying. The cold wave on the 18th killed truck generally, and damaged oats. Mean daily temperature was  $3.6^{\circ}$  below the normal, and  $0.2^{\circ}$  colder than the mean for this month in 1899.—S. M. Benton.

Winthrop College.—Sleet fell on the 17th, before 7 a. m., and a few flakes of snow, at intervals, during the forenoon. Twenty-first: Hail stones only partly frozen; numbers were larger in size than eggs or walnuts. There was also a double rainbow on this date.—Prof. Cleveland Abbe, Jr.

Shaw's Fork.—The February sand storms began on the 1st. Lightning during the evening of the 11th, and thunder on the morning of the 12th. Heavy south wind, and a sand storm on the 17th. Heavy northwest winds from 6 p. m. of the 21st to 4 p. m. of the 24th with a sand storm.—Geo. H. Atwood.

Liberty.—No plowing, scarcely, this month—not more than two days—consequently oats are not sown, except a few that were sown in January, but which are not up and seem to be killed. Fruit trees show no sign of spring. Wheat is still alive, but is small. The month has been unusually cold and wet.—Jno. T. Boggs.

Longshore.—Thunder and lightning in the northwest on the night of the 8th. Thunder cloud on the night of the 11th. On the afternoon of the 21st there was a thunderstorm with hail and rain. Lightning struck a tree near the station. High winds all night of the 24th, on which date the temperature fell  $19^{\circ}$  from dark until daylight.—W. G. Peterson.

Trenton.—Considerable hail on the afternoon and night of the 21st, doing some damage to grain. Precipitation 2.59

inches more than the 7-year average for February, and 0.66 inch more than the 7-year average for the first two months of the year. Oats have been badly thinned by freezes, winds, and hail storms. Some fields about all killed.—C. A. Long.

Gillisonville.—Rough weather during the entire month. On the 1-3d, and again on the 25-26th, the ground was frozen to the depth of one inch. Very cold on the 15th, but the ground did not freeze. Brisk, cold winds interfered greatly with farm work, which is somewhat behind. Plum trees in bloom on the 10th. Peach trees in hard buds; both have apparently withstood the weather so far. Too cold and wet for gardens.—Sam P. Saltus.

Santuc.—The month was very unfavorable for farm work. Fall oats are damaged by winter killing, and this month was too wet for sowing spring oats. The latter part of the month was stormy. The snow on the 17th came as a blizzard, and the weather turned uncomfortably cold. There were thunderstorms on the 21st and 24th, with nearly as great electrical displays as during the summer season. High winds were prevalent. The month closed with a heavy wind and rain storm.—E. W. Jeter.

#### FEBRUARY'S VARIABLE WEATHER.

In recent years, and the same was probably true before weather records were so generally kept, the month of February has become noted as the most variable month of the year. In some years the entire month is spring-like, mild and balmy. Again the entire month is cold, wet, cloudy, and windy, while other years exhibit in rapid succession the various weather phases peculiar to this State in the winter season.

The mean temperature for February, deduced from varying periods of from 5 to 12 years' observations, is  $46.3^{\circ}$ , or nearly  $2^{\circ}$  higher than the mean for January. State means have been deduced from observations covering so short a period of time that it is not probable that the extreme variation has been definitely determined, only approximately so, by the existing record, which dates back to 1893. Since that time February, 1897, was the warmest, with a State mean of  $50.0^{\circ}$ , and February, 1895, the coldest, with a mean temperature of  $37.4^{\circ}$ .

The highest maximum temperature recorded in the past 8 years was  $83^{\circ}$  at Gillisonville in February, 1897, and the lowest minimum in 1899 at Santuc and Shaw's Fork, where  $11^{\circ}$  below zero was noted on the morning of the 14th.

It is not alone in the matter of temperature that the month shows great variability, but also in precipitation, which for the past 8 years ranged from a State average of 0.86 of an inch in 1898 to 7.89 inches in 1897, while the average amount, or normal, is 4.40 inches. Snow is quite common, and there has been no year since 1893 without some snow in the State. The least was recorded in 1898 when only a trace fell at Society Hill, while the year with heaviest snowfall was 1895 when 18.5 inches were recorded at Holland. Snow seldom accumulates to any considerable depth, and rarely remains on the ground longer than three days, except in 1895 when it lasted about seven days.

Farm work usually is actively carried on in this month, especially in the eastern portions, where lands for corn and cotton receive their first preparation, and in some years corn and oats are planted during the latter part of February. In the same sections fruit trees usually begin to bloom and gardens are prepared and planted, while the hardier vegetables are cultivated on the truck farms. In the central and western portions of the State little farm work except plowing is practicable, and usually it is too wet to do much of that.



## CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY, 1900.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall. (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
Allendale	Barnwell	186	12	59.4		74	15	14	18	49	4.74	+1.46	1.90	0	7	11	6	11	B. F. Wilson.
Augusta, Ga.	Richmond	134	20	46.0	-4.0	73	8	13	18	32	6.42	+2.05	1.50	0	13	9	6	13	Weather Bureau.
Batesburg	Lexington	656	12	41.9		68	8	12	18	33	7.05		1.55	0	9	9	7	12	E. J. Hite.
Beaufort	Beaufort	28	14	49.6	-3.6	76	8	17	18	27	4.06	+0.89	1.03	0	8	11	8	9	S. M. Benton.
Blackville	Barnwell	293	12	45.6	-0.3	73	8	14	18	36	3.99		0.78	0	9	6	16	6	G. D. C. Lange.
Calhoun Falls	Abbeville		7								7.81	+4.01	1.89	0	10	12	0	16	P. J. Pfeiffer.
Camden	Kershaw	222	34								6.10	+2.47	1.59	0	11	11	4	13	B. Ammons.
Charleston	Charleston	52	31	49.1	-3.0	75	13	19	18	30	2.31	-1.10	0.52	0	11	7	9	12	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	22	39.5	-4.9	65	8	9	18	30	5.25	+0.64	1.08	0	14	10	3	15	Weather Bureau.
Cheraw (1)	Chesterfield	144	12	38.7	-8.3	65	14	12	1	36	4.42	+0.49	0.85	0	10	13	0	15	W. R. Godfrey.
Cheraw (2)		87	7								4.39	+0.05	0.80	0	11	10	5	13	Jno. H. Powe.
Clemson College	Oconee	850	9	40.4		69	8	7	18	39	10.02	+5.34	1.85	1.5	13	7	10	11	Prof. C. C. Newman.
Columbia	Richland	336	13	44.4	-5.6	71	8	12	18	41	5.93	+1.75	1.28	0.5	11	9	5	14	Central Office.
Conway	Horry	40	9								5.75	+1.48	1.49	0.3	8	8	4	16	P. Quattlebaum.
Darlington	Darlington	175	5								7.07		1.86	0.5	11	9	12	7	E. R. McIver.
Edisto	Bamberg	127	7								4.91	-0.17	1.29	0.3	9	8	6	14	Miss Jerry Carter.
Edlingham	Florence	106	8								5.17	+0.45	1.65	0.3	8	8	5	15	A. J. Howard.
Fairbluff, N. C.	Columbus		6								4.89		1.25	0.3	8	8	5	15	I. M. Powell.
Florence	Florence	156	12	43.7	-4.0	72	8	13	17	37	7.42		2.10	0.2	9	10	4	14	H. K. Gilbert.
Gaffney	Cherokee		4								5.19		1.02	0.4	13	8	4	16	B. F. Camp.
Georgetown	Georgetown	12	7	47.4	-0.6	78	8	18	18	27	3.50	-1.16	0.70	0	6	22	0	6	W. T. Turbeville.
Gillsonville	Hampton		5	48.6	-2.2	77	8	15	18	33	3.64		0.96	0	9	9	6	13	Sam P. Saltus.
Greenville	Greenville	1,000	8	37.4	-3.4	66	16	8	18	38	9.13	+5.13	2.05	2.0	14	11	1	16	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	12	39.8	-3.3	69	9	10	18	33	6.07		1.27	0	11	9	0	19	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	8	35.5	-3.4	60	15	-2	18	33	12.98	+6.03	3.74	2.0	12	4	11	13	B. C. Hawkins.
Holland (a)	Anderson		12	39.0	-4.3	64	14	9	1	36	10.61	+5.54	2.80	0.2	13	7	15	8	Dr. J. W. Earle.
Kingstree (1)	Williamsburg	77	12	44.6		74	13	16	18	37	3.99	-0.21	1.22	0.1	9	7	6	16	C. J. Lesesne.
Kingstree (2)			6								4.05		1.26	0.1	11	13	0	15	Jos. W. Arms.
Liberty	Pickens		6	40.0	-1.5	60	8	1	18	36	10.21		2.34	0	11	13	0	15	Jno. T. Boggs.
Little Mountain	Newberry		7	43.6	-1.9	68	13	10	18	32	7.06	+2.65	1.44	0.5	13	7	8	13	John M. Sease, M. D.
Longshore	Newberry	530	7	42.2	-1.4	60	8	11	18	35	8.14	+3.33	1.73	1.5	12	10	6	12	W. G. Peterson.
Pinopolis	Berkeley		7	47.2	-0.6	70	12	19	18	28	2.20	-3.11	1.01	0	5	10	0	18	E. P. Ravenel.
Raleigh, N. C.	Wake	376	14	40.0	-3.0	71	13	11	1	38	4.56	+0.28	1.05	0.3	13	7	9	12	Weather Bureau.
St. Georges	Dorchester	100	12	46.5	-0.1	76	8	15	18	34	4.64		1.24	0.3	9	7	5	16	W. B. Raysor.
St. Matthews	Orangeburg		12	44.6		71	8	13	18	34	4.36		1.07	0.3	9	7	3	15	J. S. Wannamaker.
St. Stephens	Berkeley	74	8								3.61	-1.01	1.19	0.1	9	9	3	16	C. T. Shuler.
Santuc (a)	Union	512	7	41.6	-0.7	68	8	7	18	37	5.50	+0.87	1.13	1.0	14	7	10	11	E. W. Jeter.
Savannah, Ga.	Chatham	71	31	50.1	-4.0	77	8	16	18	38	2.60	-0.69	0.79	0	11	7	10	11	Weather Bureau.
Shaws Fork	Aiken	500	7	43.4	-5.4	74	12	13	18	34	7.20		1.82	0	9	8	15	5	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	5								4.55		1.60	0.2	9	8	4	16	H. van Keuren.
Society Hill	Darlington	192	9	44.9	-0.4	70	8	16	17	36	6.54	+1.86	1.36	0.2	9	3	19	6	J. J. Lucas.
Spartanburg	Spartanburg	875	9	38.6	-6.4	65	8	8	18	47	7.99	+2.99	1.97	2.0	12	11	3	14	F. P. Robinson.
Statesburg	Sumter	500	20	45.8	-3.6	73	6	12	18	30	7.46	+3.78	1.74	0.4	10	9	5	14	W. W. Anderson, M. D.
Summerville	Dorchester		3	49.0		75	8	18	17	34	5.58		1.08	0	10	8	9	11	Prof. Jno. Gadsden.
Temperance	Marion	100	2	44.6		76	8	13	1	40	6.53		1.50	0	8	3	15	10	J. R. Reaves.
Trenton	Edgefield	620	7	45.9	-1.6	70	8	12	18	32	9.74	+4.14	2.83	0.6	11	6	13	9	C. A. Long.
Trial	Berkeley		14	45.2	-4.1	75	8	14	1	37	4.09	+0.08	1.33	0	7	7	12	8	Etsell Gaillard.
Walhalla	Oconee	1,061	10	39.8	-5.9	68	15	7	1	38	9.46	+5.13	0.5	0	11	8	12	8	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	31	45.0	-4.0	75	8	17	18	32	2.69	-0.72	0.77	0	10	10	8	10	Weather Bureau.
Winnsboro	Fairfield	545	11	41.4	-5.8	65	8	9	18	32	5.85	+1.53	1.75	0.5	7	17	3	8	John W. Seigler.
Winthrop College	York	690	1	41.4		68	13	8	18	38	5.03		1.16	0.5	14	8	6	12	Prof. Cleve'nd Abbe, jr.
Yemassee	Beaufort		5	47.3		75	8	16	18	33	1.86		0.50	0	8	7	4	17	R. G. Smith.
Yorkville	York	680	12	43.1	-3.0	70	13	13	18	34	5.58	+1.07	1.28	1.5	10	8	8	12	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				44.0	-2.3	78	1	1	18	49	5.77	+1.37	2.83	0.4	10	9	7	12	

a, b, c, etc., indicate number of days missing, with values as follows: a 1, b 2, c 3, etc.

\* On other dates also.

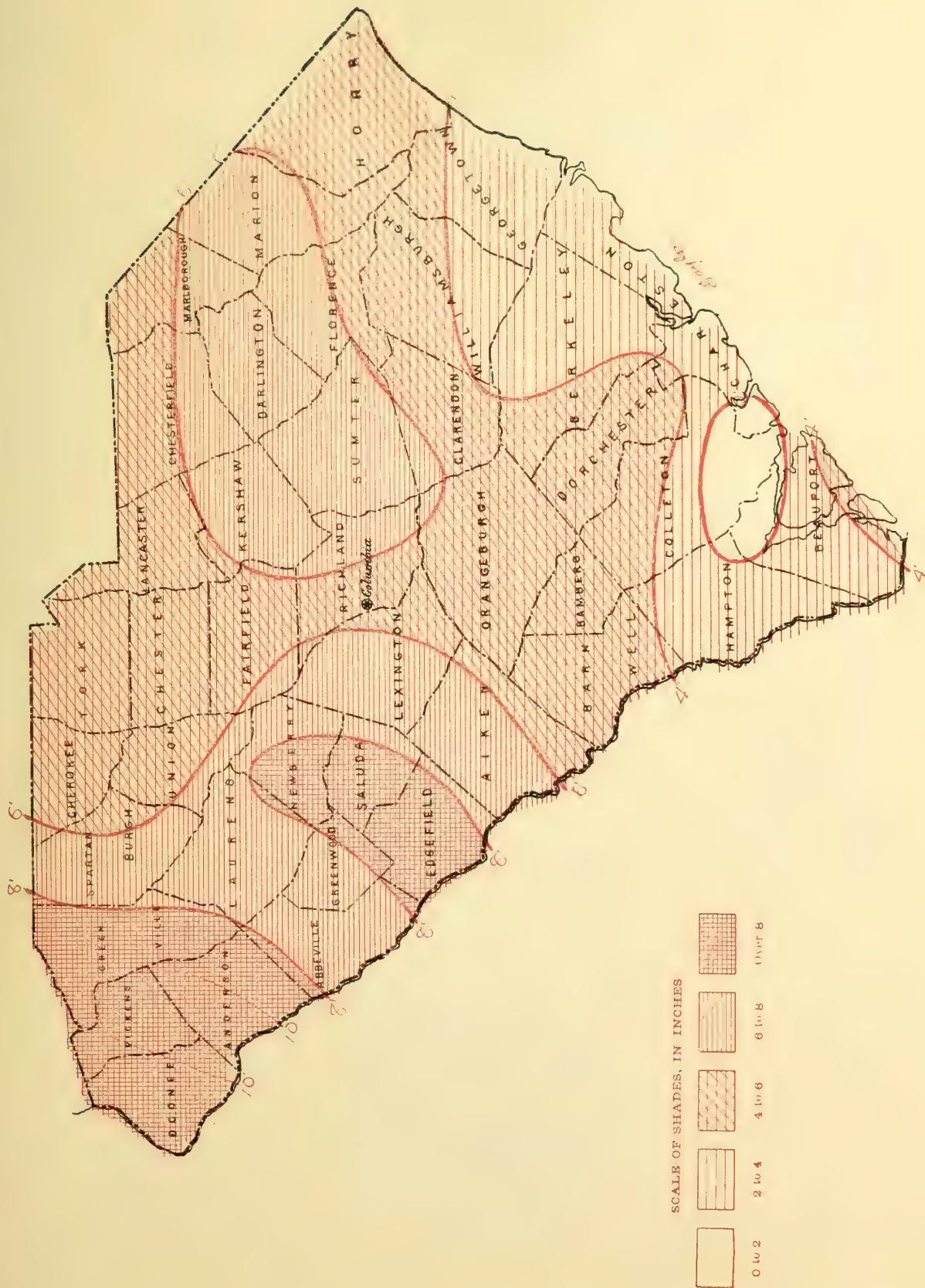
† Mean from 7 a. m., 2 and 9 p. m. observations.







# TOTAL PRECIPITATION FOR FEBRUARY 1900.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, FEBRUARY, 1900.

STATIONS.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Allendale				.85					.05	1.90		.35	.52								.50			.57									4.74	
Augusta, Ga.				.82		.02	.02	.04	.06	1.23	.71	.16	1.50								.54	.13		.47		†		.69					6.42	
Batesburg				.80				†	.15	.45	1.10	1.55	1.15	.05								.13											7.05	
Beaufort	1.03			.02	†				.43	†	.24		.58									†			.65		†		.91				4.06	
Blackville				.39		.03			.01	.69	.78	.25	.70	†								.23			.62		†		.91				3.99	
Calhoun Falls																																		
Camden				.50	.09		.40		.20	.86	.98	1.89	1.42								1.15			.32									7.81	
Charleston				.75	.03	†	.02	.03	.03	.93	1.59	1.10							.11				†	.88	†		.57						6.10	
Charlotte, N. C				.46		.01	.01	†	.21	.01	.09	†	.52								.35			.42	.03	†		.17					2.31	
Conway				.59		.06	.02	.04	.09	.90	.05	.62	1.08				.03	.01			.90	†		.40				.46					5.25	
Cheraw(1)				.65	†		.18	.08	.02	.65	.70	.78						†	.01			.85				.50							4.42	
Cheraw(2)				.61		.01	.19	.04	.02	.69	.72	.78							.03			†	.80			.50							4.39	
Clemson College				1.28		.06	.11	.10	.49	.80	.19	1.85	1.84					†	.09			1.12			.59				1.50				10.02	
Columbia				.56		†		†	.08	1.28	.82	.72	1.14					†	.05			.61	.06		.44		†		.17				5.93	
Conway				1.16					†	.57	1.49	.43	.29						.03				.88			.90	†						5.75	
Darlington, near				.37	.03				.03	1.37	1.86	.86					.05	.05				1.00			.76				.69				7.07	
Edisto				.61		†			.10	.25	1.04	.60	1.15									†	.75			.35							4.91	
Effingham				.37					.06			†	1.01	†					.03			1.65				.85	†						5.17	
Fairbluff, N. C.				.69	†				†	1.25	.97	.62	†						.02	.01		†	.63			.70							4.89	
Florence				.50	†			.05		.90	2.10							.22				1.15			.90								7.42	
Gaffney				.60	.06	.08	.14	.20	.20	.61	.98	1.02									.02	.99				.25							5.19	
Georgetown				.50					.50	.70								.45							.65				.70				3.50	
Gillisonville				.60		.01			.32	.40	.01	.29										.27	.06		.72				.96				3.64	
Greenville				1.40	.09	.03	.15	.36	.36	.58	1.75	2.05						†	†	.20		.28	1.15		†	.68		.05					9.13	
Greenwood				.50			.25	.15	.70	.85	1.27	1.02									.05	.80				.43							6.07	
Horse Cove, N. C.	1.26			.25	.51	.81			1.29	1.10	3.74							.11	.12		1.07	†		.58	†			2.14					12.98	
Holland				.52	.14		.38	.40	1.00	.80	1.70	2.80							.05			.80			.40				1.62				10.61	
Kingstree(1)				.67					†	.50	1.22	.18	.22						.01			†	.58			.53		.08					3.99	
Kingstree(2)				.66					†	.48	1.26	.17	.21						.01			†	.56			.49		.11					4.05	
Liberty				1.35		.15	†	.14	.39	.61	.39	1.61	2.31					†	†			1.20			.68				1.35				10.21	
Little Mountain		†		.67		.01	.10	.02	.07	1.11	1.41	.22	1.18					.07				.71			.66		†		.80				7.06	
Longshore				.67	.04		.24	.09	.52	.75	1.21	1.35							.02			.95			.54				1.73				8.14	
Pinopolis				.24						1.01		.44													.60				1.00				2.29	
Raleigh, N. C.				.80		.03	†	.05	.17	.56	.03	.54	1.05						†	.05			.44	.34		.25	.25		†				4.56	
St. Georges				.50					.10	.22	1.21	.38	1.02						.03				.40			.75							4.64	
St. Matthews				.41					.05	.17	1.06	.42	1.07						.03			†	.35			.80							4.36	
St. Stephens				.85		†		.07	.52	.67	.05	.30										†	.56			.58								3.61
Santuc				.57		.05	.02	.15	.18	1.06	.08	.67	1.13					†	.16			.81			.36				.26				5.50	
Savannah, Ga.				.54		.13	.02	†	.01	.10	.18	.01	.30									1.0	†		.42		†		.79				2.60	
Shaws Fork				.82						.35	1.82	.60	.12	1.42									†										7.20	
Smiths Mills				1.60		†		.06	.32	1.20	.15	.40		†									.60			.20	†						4.55	
Society Hill				.61			.05			.94	1.02	1.04							.02			1.34			.66				.86				6.54	
Spartanburg				†	.87	.10	.05	.18	.15	.30	.58	1.20	1.34					†	.05			.27	.93					1.97					7.99	
Statesburg				.49		†			.09	1.06	1.58	.16	1.07						.02			1.43			.68			.88					7.46	
Summerville				1.08		.04		†	.41	.94	†	.30	.03									.73			.87		.10		1.08				5.58	
Temperance				.48		†			.03	1.48		1.50	.97									.62	.55		.90								6.53	
Trenton				.85					.30	1.12	1.85	1.15	1.47									1.25	.09		.73		.02		.91				9.74	
Trial				.60		†			.74	.97	.05	.10							†			.30					†		1.33				4.09	
Walhalla		1.15		.05			.60	*	*	*	4.50							†	.08			1.00			.65				1.43				9.46	
Wilmington, N. C.				.69			.07	.01	.77	.09	.10	.07										.70	†		.14	.05	†						2.69	
Winnsboro							.20		1.07	1.28	1.75								.05				.75			.75							5.85	
Winthrop College				.46		.03	†	.08	.07	.88	.04	.59	1.16						†	.05									.14				5.03	
Yemassee				.50	†	.10	†	†	.12	.22	.08	.30	†									†	.12		.40								1.86	
Yorkville				.62		.08	†	.12		.92	†	.84	1.20					†	.07						.30				.15				5.58	

\* Precipitation included in that of the following day.

† indicates trace, less than 0.01 inch.



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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1900.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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BY

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SECTION DIRECTOR.

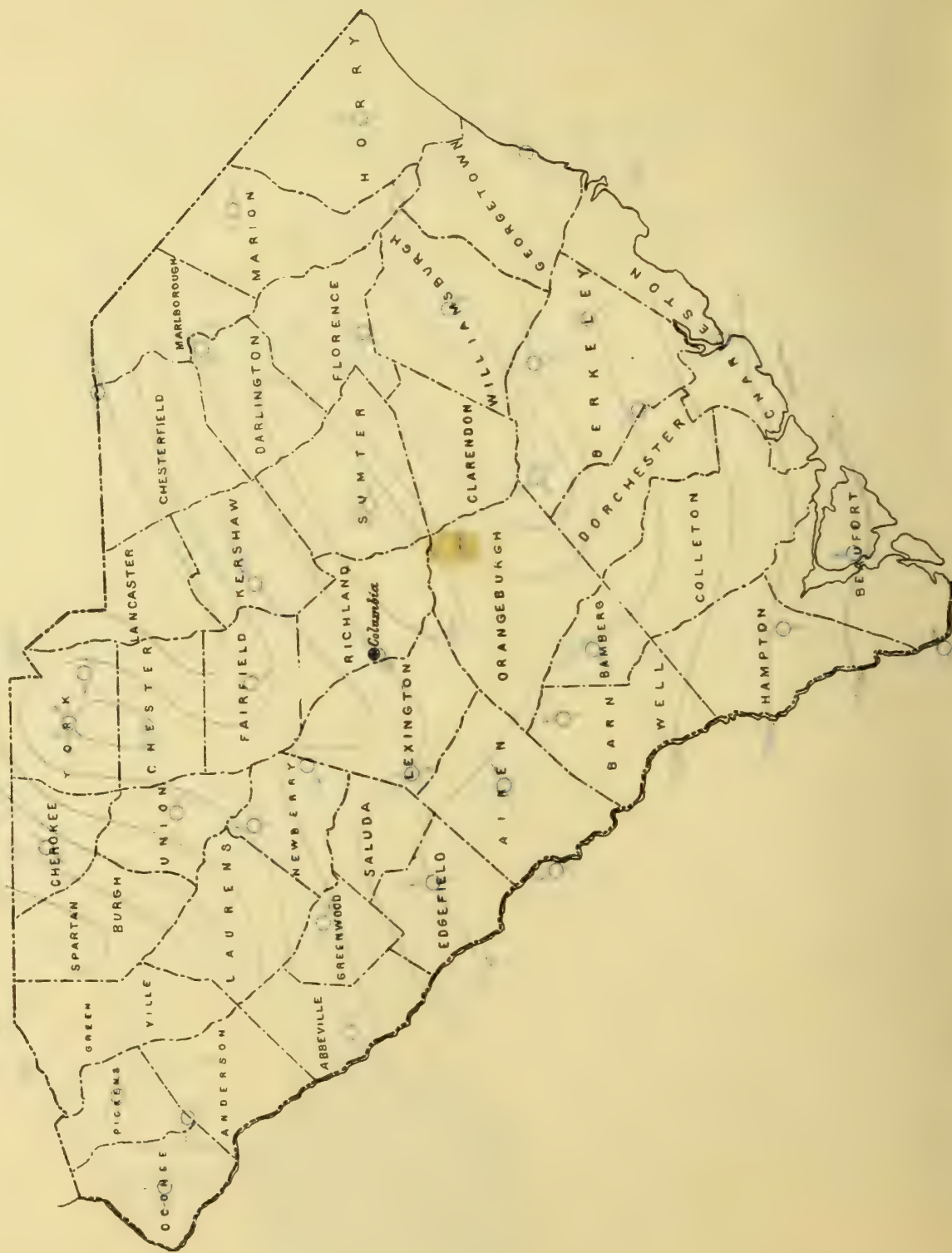


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL, 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

**CLIMATE AND CROP SERVICE**

OF THE

**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. III.

COLUMBIA, S. C., APRIL, 1900.

No. 4.

**CLIMATOLOGY FOR THE MONTH.**

Temperature, in Degrees Fahrenheit.

The mean temperature for the month of April, 1900, was 62.4°, which is 0.2° above the normal. The highest local mean was 67.6° at Beaufort; the lowest local mean was 57.5° at Greenville. The highest temperature for the month was 90° at Gillisonville on the 29th; the lowest temperature was 24° at Clemson College, Greenville, and Holland on the 1st, making the State range 66°. The greatest local monthly range was 62° at Liberty, and the least local monthly range was 37° at Charleston. The mean of the daily maximum temperatures was 73.5°, and of the daily minimum temperatures was 51.2°.

Precipitation, in Inches.

The average April, 1900, precipitation for the State was 5.41 inches, which is 2.38 above the normal, or, expressed in percentage, was 1.78 per centum of the usual amount. The rainfall was heaviest, and in excess of 6 inches, over the western portion of the State, and was least along the immediate coast region northeastward from Charleston. The greatest local amount for the month was 10.32 inches at Shaw's Fork, and the least local amount was 2.35 inches at Georgetown. The greatest 24-hourly fall was 4.35 inches at Camden on the 18-19th. The average number of days with rain was 9, ranging from 3 at Georgetown to 14 at Little Mountain.

Hail.—Charleston, 27th (severe); Longshore, 21st; Pinopolis, 12th (severe), 29th.

**CLIMATE AND CROPS.**

The temperature conditions during April, 1900, were extremely favorable after the 5th instant, on which date the last general killing frost occurred, except that on the 13th and 14th there was an unusually cool period with killing frosts in the extreme western portions of the State, but none of the April frosts were severe enough to do any perceptible damage to field crops, fruits, or gardens which at the beginning

of the month were very backward over the region where the minimum temperature fell below freezing, to which circumstance they owe their immunity.

The average rainfall was, with one exception, the heaviest on record for April, and, as in February and March, was nearly twice the normal amount over the western portions of the State, where, after the 17th, it practically stopped all farm work on account of making the ground too wet to plow. In this portion of the State, the heavy rainfall damaged terraced lands, washed hillsides, and carried away bridges. However, the physical injury to lands was unimportant when compared with the probable damage caused by delaying farming operation.

Over the eastern portions of the State, farm work made rapid progress, and practically all corn and cotton, and the numerous minor crops, were planted, and some came up to excellent stands and received their first cultivation.

In the western portions, the conditions were less favorable early in the month and planting operations were only well underway when they were interrupted by a week of heavy rains, beginning on the 17th, and it was near the close of the month before they could be resumed, and even then bottom lands were too wet to work, thus making an already backward season still later.

The immediate effect of the copious rainfall seemed beneficial on wheat and oats. The latter made rapid improvement and on fields that maintained a stand through the winter, this crop was very promising. Later developments seemed to indicate that the rainfall was injurious to wheat.

The general outlook for peaches continued excellent, but pear and apple trees began to blight toward the close of the month. The prospects for minor crops, fruits, berries, gardens and truck were above the seasonal average.

**MISCELLANEOUS PHENOMENA (with dates).**

Weather.—The average number of clear days during April was 12, of partly cloudy days 9, and of cloudy days was 9.

Winds.—The prevailing direction of the wind for the State was from the northeast. Locally the prevailing direction was from the northeast at 10 stations; from the east and south at 7 stations each; from the southeast at 6 stations; from the southwest, west and northwest at 5 stations each; and from the north at 2 stations.

High Winds.—Beaufort, 18; Blackville, 4, 17; Trial, 4, 18; Walhalla, 4.

Ice.—Thin ice formed over practically the entire State on the 1st, and over a large portion of the State on the 5th.

Solar Halos.—Beaufort, 23; Charleston, 9, 22, 23; Santuc, 14; Statesburg, 8, 23.

Lunar Halos.—Beaufort, Gillisonville, 11; Charleston, 8, 10, 16; Columbia, 6, 10, 15; Shaw's Fork, 15; Winthrop College, 6.

Fogs, Dense.—Blackville, 12; Camden, St. Stephens, 29; Clemson College, 19, 22; Gillisonville, Santuc, 22; Liberty,



Spartanburg, Yorkville, 19; Society Hill, 27; Statesburg, 12, 28; Walhalla, 20, 21, 22; Winthrop College, 11, 19, 22.

Thunderstorms.—Beaufort, 9, 12, 17, 20, 21, 24, 27, 28, 29, 30; Blackville, 9, 10, 18, 27, 29; Charleston, 9, 10, 12, 27, 28, 29, 30; Cheraw, 3, 11, 18; Clemson College, 10, 11, 17, 20, 21; Columbia, 3, 11, 12; Gillisonville, 9, 12, 18, 20, 21, 24, 27, 28, 29, 30; Greenville, 21; Holland, 26, 27; Liberty, 3, 4, 11, 17, 20, 21, 23, 26; Little Mountain, 3, 18, 19, 20, 21; Longshore, 3, 9, 10, 11, 17, 20, 21, 22, 25, 26, 27, 29, 30; Santuc, 4, 11, 12, 17, 18, 20, 21, 23, 30; Shaw's Fork, 17, 18, 21, 26; Society Hill, 11, 30; Statesburg, 17, 18, 19, 20; Summerville, 9, 12, 27, 28, 29; Trenton, 19, 20, 28, 29; Trial, 3, 10, 11, 12, 29; Walhalla, 17, 18, 20, 21, 25, 26; Winthrop College, 11, 12, 17, 21; Yorkville, 30.

Killing Frost (probably last of the season).—Charleston, March 17th; Georgetown, March 12th; Pinopolis, March 18th; Summerville, March 31st; Allendale, Batesburg, Beaufort, Blackville, Columbia, Gillisonville, Liberty, Statesburg, April 1st; Camden, Cheraw, Conway, Darlington, Edisto, Effingham, Florence, Gaffney, Greenwood, Kingstree, Little Mountain, Longshore, St. George, St. Matthews, St. Stephens, Smiths Mills, Temperance, Winthrop College, Yemassee, Yorkville, April 5th; Clemson College, Greenville, Trenton, Walhalla, April 13th; Holland, Winnsboro, April 14th; Santuc, April 6th; Shaw's Fork, 3d; Society Hill, 4th; Spartanburg, 2d; Trial, 14th.

#### REMARKS BY OBSERVERS.

Holland.—April 1st there was a severe freeze that seriously injured the peach crop. Planting of cotton began on April 14th.—Dr. J. W. Earle.

Gillisonville.—Month wet and warm. First half favorable and entire cotton crop planted; last half too wet to work with good results, although some corn was cultivated. Some complaint as to stands of cotton. Sugar cane and gardens doing well.—Sam P. Saltus.

Trenton.—Ice, and ground frozen slightly, on the 1st. Precipitation for April was 1.28 inches more than the 7-year average for this month, and since January 1st it has been 1.22 inches more than the average for the first 4 months of the year.—C. A. Long.

Winthrop College.—Brisk wind on the afternoon of the 17th. On the 18th, between 8.30 a. m. and 6 p. m., 1.74 inches of rain fell. Heaviest at 1.30 p. m. Fruit and crops were not seriously injured by the frost on the 5th. Peaches abundant, and were as large as hazel nuts on the 30th.—Dr. Cleveland Abbe, Jr.

Statesburg.—8th, martins and whippoorwills heard; 10th, bee-birds seen; 12th, summer red birds heard; 13th, humming birds seen; 16th, swallows seen, and large brown fly-catcher

heard, indicating that there will be no more killing frosts; 21st, nonpareil and chuck-will-willow heard; 33d, night hawks arrived.—W. W. Anderson, M. D.

Beaufort.—The mean temperature is  $1.9^{\circ}$  above the normal. The rainfall is 2.65 inches above the normal. There was too much rain for the lowlands. Grass is growing rapidly, and in places is getting ahead of crops. Oats and potatoes look well. Dogwood in bloom on the 6th; apple trees on the 10th; and locust trees on the 23d.—S. M. Benton.

Longshore.—On the 17th, during a thunderstorm from the southwest, 1.63 inches of rain fell in 40 minutes. From 6.20 p. m. of the 17th to 6.20 p. m. of the 18th the rainfall was 3.94 inches. April was a wet month and very detrimental to farm work. The lands are badly washed, and the bulk of the cotton and corn crops will have to be planted in May.—W. G. Peterson.

Liberty.—At the end of April, not one-half of the cotton or corn crops has been planted in this section. Corn and cotton that were planted early are up to good stands. All vegetation growing rapidly. The fruit crop is at present very promising. Strawberries, blackberries and all other berries are blooming more freely than usual.—John T. Boggs.

Santuc.—The latter part of the month was very wet, owing to frequent heavy rains. Lands were badly washed, streams overflowed their banks, and fences, timber, and bridges were washed away. Farm work got belated, and planting operations were delayed at least ten days. Wheat is much improved. A wavy light, as if an electric light was behind the clouds, was seen in the northeast, on the night of the 20th, supposed to have been the reflection of lightning from a far off storm.—E. W. Jeter.

#### NOTES AND COMMENTS

The minimum temperature at Shaw's Fork, in the opinion of the voluntary observer, averaged about  $5^{\circ}$  too low for the month of April. Applying this correction, and deducing the mean temperature for the month in the usual manner, would make the monthly mean temperature  $64.0^{\circ}$  instead of  $61.5^{\circ}$  as published. The corrected mean would more nearly agree with surrounding stations.

It has long been the intention of the Chief of the Weather Bureau, and it now appears that it will be feasible to do so during the next fiscal year, to give every voluntary observer a blank bound book, suitably arranged and ruled off, with appropriate headings, in which to record the observations taken at voluntary observing stations. The proposed arrangement of the book is such as to permit each month's data to be entered on the same page. When distributed, the books will become the private property of the voluntary observers receiving them.



CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1900.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.							Precipitation—in inches.				Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Allendale	Barnwell	186	12	64.4	—0.1	86	30	30	1	43	3.78	+0.87	1.22	.....	6	13	8	9	.....	B. F. Wilson.
Augusta, Ga.	Richmond	134	20	64.4	+0.4	86	7	32	1	41	7.59	+4.04	2.37	.....	11	10	12	8	se.	Weather Bureau.
Batesburg	Lexington	656	12	62.0	—0.6	88	24	30	1	36	6.00	+3.82	2.30	.....	10	14	6	10	n.	E. J. Hite.
Beaufort	Beaufort	28	14	67.6	+1.9	86	28	38	1	36	4.54	+2.65	1.35	.....	13	12	14	4	s.	S. M. Benton.
Blackville	Barnwell	293	12	64.7	+0.7	88	* 7	29	1	45	5.87	+2.54	4.15	.....	9	9	17	4	se.	G. D. C. Lange.
Calhoun Falls	Abbeville	354	7	.....	.....	.....	.....	.....	.....	.....	7.11	+3.52	1.70	.....	9	19	0	11	ne.	P. J. Pfeiffer.
Camden	Kershaw	222	34	.....	.....	.....	.....	.....	.....	.....	7.17	+4.20	4.35	.....	12	12	8	10	sw.	B. Ammons.
Charleston	Charleston	48	31	65.8	+1.0	86	7	39	5	32	3.42	+0.03	1.30	.....	11	10	15	5	s.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	22	59.6	0	83	29	30	1	33	5.32	+1.84	1.70	.....	10	8	7	15	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	114	12	59.8	+2.0	85	* 9	29	1	33	5.01	+1.97	1.93	.....	6	11	9	10	e.	W. R. Godfrey.
Cheraw (2)	.....	108	7	.....	.....	.....	.....	.....	.....	.....	5.12	+1.44	2.42	.....	7	11	9	10	e.	Jno. H. Powe.
Johnson College	Oconee	850	9	60.0	.....	85	* 7	24	1	54	7.39	+4.33	1.74	.....	13	12	11	7	e.	Prof. C. C. Newman.
Columbia	Richland	336	13	63.6	+0.6	89	29	31	1	39	5.63	+2.85	3.06	.....	7	11	10	9	ne.	Central Office.
Conway	Horry	49	9	.....	.....	89	.....	.....	.....	.....	3.00	+0.53	0.95	.....	5	12	6	12	s.	P. Quattlebaum.
Darlington	Darlington	175	5	.....	.....	.....	.....	.....	.....	.....	6.20	.....	3.00	.....	9	7	17	6	.....	E. R. McIver.
Edisto	Bamberg	143	7	.....	.....	.....	.....	.....	.....	.....	5.20	+1.61	1.75	.....	9	12	9	9	ne.	Miss Jerry Carter.
Effingham	Florence	106	8	.....	.....	.....	.....	.....	.....	.....	4.67	+2.19	1.95	.....	5	12	9	9	ne.	A. J. Howard.
Fairbluff, N. C.	Columbus	73	6	.....	.....	.....	.....	.....	.....	.....	4.22	.....	1.94	.....	7	14	7	9	s.	I. M. Powell.
Florence	Florence	156	12	61.8	—0.2	85	30	31	1	34	4.64	+2.03	2.05	.....	8	13	3	14	ne.	H. K. Gilbert.
Gaffney	Cherokee	.....	4	.....	.....	.....	.....	.....	.....	.....	8.55	.....	4.17	.....	11	10	9	11	ne.	B. F. Camp.
Georgetown	Georgetown	12	7	62.6	—0.4	83	23	39	* 2	38	2.35	—1.05	1.15	.....	3	25	0	5	sw.	W. T. Turbeville.
Gilsonville	Hampton	.....	5	66.6	+2.4	90	29	31	1	50	4.96	.....	1.53	.....	10	10	7	13	s.	Sam P. Saltus.
Greenville	Greenville	1,000	8	57.5	—0.2	81	8	24	1	40	7.92	+4.58	3.33	.....	12	13	4	13	w.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	12	61.2	—0.1	87	30	28	1	34	7.28	+4.10	1.95	.....	10	15	4	11	w.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	8	56.0	.....	77	27	28	1	32	8.86	.....	3.15	T.	13	6	12	12	se.	B. C. Hawkins.
Joland	Anderson	.....	12	60.0	—0.1	85	7	24	1	50	7.19	+3.85	1.50	.....	11	13	11	6	.....	Dr. J. W. Earle.
Kingstree (1)	Williamsburg	77	12	62.0	—1.1	85	29	32	1	35	3.60	+1.19	0.88	.....	8	12	7	11	nw.	C. J. Lesesne.
Kingstree (2)	.....	77	6	.....	.....	.....	.....	.....	.....	.....	3.66	.....	0.88	.....	8	12	7	11	nw.	W. H. Matthews.
Liberty	Pickens	.....	6	60.4	+0.5	87	* 29	25	1	48	6.01	.....	1.60	.....	10	15	4	11	w.	Jno. T. Boggs.
Little Mountain	Newberry	.....	7	62.4	+0.3	87	29	30	1	38	6.05	+2.06	2.05	.....	14	8	13	8	ne.	John M. Sease, M. D.
Longshore	Newberry	530	7	61.6	+0.2	87	29	26	1	41	8.50	+4.90	3.94	.....	13	9	13	8	s.	W. G. Peterson.
Maple	Berkeley	.....	7	64.3	+2.5	87	7	34	1	.....	3.95	+0.54	1.30	.....	9	7	11	12	nw.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	14	59.2	0	86	30	30	5	31	4.09	+0.75	1.11	.....	10	14	9	7	ne.	Weather Bureau.
St. Georges	Dorchester	109	12	63.2	—0.5	88	29	31	1	35	3.69	+1.04	1.70	.....	9	12	7	11	.....	W. B. Rayson.
St. Matthews	Orangeburg	254	12	63.8	—0.2	87	7	33	* 1	33	4.62	+1.28	3.10	.....	11	12	7	11	.....	J. S. Wannamaker.
St. Stephens	Berkeley	73	8	.....	.....	.....	.....	.....	.....	.....	3.71	+1.26	1.40	.....	7	14	7	9	n.	C. T. Shuler.
Union	Union	512	7	60.6	+0.8	86	30	25	1	48	6.00	+2.43	3.23	.....	11	9	12	9	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	31	67.2	+1.0	86	29	40	1	31	4.99	+1.63	1.68	.....	11	14	10	6	sw.	Weather Bureau.
Savannah Fork	Aiken	500	7	61.5	—2.9	87	28	27	1	40	10.32	.....	4.20	.....	10	18	9	3	sw.	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	5	.....	.....	.....	.....	.....	.....	.....	3.19	.....	1.60	.....	7	12	6	12	w.	H. van Keuren.
Society Hill	Darlington	192	9	63.4	+1.2	85	30	34	4	29	5.07	+0.62	2.05	.....	8	4	23	3	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	9	57.8	—3.1	87	30	29	5	35	5.94	+2.62	2.88	.....	8	10	5	15	.....	F. P. Robinson.
Statesburg	Santer	500	20	64.4	+1.7	86	8	32	1	35	6.59	+3.83	2.62	.....	9	9	11	10	e.	W. W. Anderson, M. D.
Summerville	Dorchester	.....	3	64.8	.....	85	* 8	35	1	39	6.14	.....	3.27	.....	8	13	12	5	se.	Prof. Jno. Gadsden.
Temperance	Marion	100	2	61.2	.....	89	30	29	1	39	5.51	.....	2.27	.....	9	10	15	5	w.	J. R. Reeves.
Trenton	Edgefield	620	7	64.8	+0.1	84	8	35	1	30	5.04	+1.29	2.98	.....	11	10	16	4	s.	C. A. Long.
Tril	Berkeley	.....	14	60.6	—1.5	83	* 7	26	1	45	3.23	+0.88	1.20	.....	7	10	10	10	nw.	Etsell Gaillard.
Valhalla	Oconee	1,061	10	59.6	+0.1	85	* 7	27	4	45	6.88	.....	1.90	.....	10	6	19	5	se.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	31	62.5	0	84	8	34	5	28	1.85	—1.03	1.06	.....	7	13	8	9	s.	Weather Bureau.
Winnsboro	Fairfield	545	11	59.4	—2.5	79	8	28	1	35	6.95	+4.69	2.10	.....	7	19	6	5	nw.	John W. Seigler.
Winthrop College	York	690	1	61.0	.....	85	* 29	29	1	36	5.13	.....	2.10	.....	10	8	9	13	e.	Prof. Cleve and Abbe, jr.
Wm. Massie	Beaufort	23	5	64.6	.....	87	29	35	5	33	3.26	.....	1.10	.....	11	13	6	11	sw.	R. G. Smith.
Yorkville	York	680	12	62.0	+0.5	89	30	30	1	37	7.46	+4.91	2.97	.....	9	7	12	11	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.	.....	.....	.....	62.4	+0.2	90	29	24	1	54	5.41	+2.38	4.35	.....	9	12	9	9	ne.	.....

a, b, c, etc., indicate number of days missing, with values as follows: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., 2 and 9 p. m. observations.

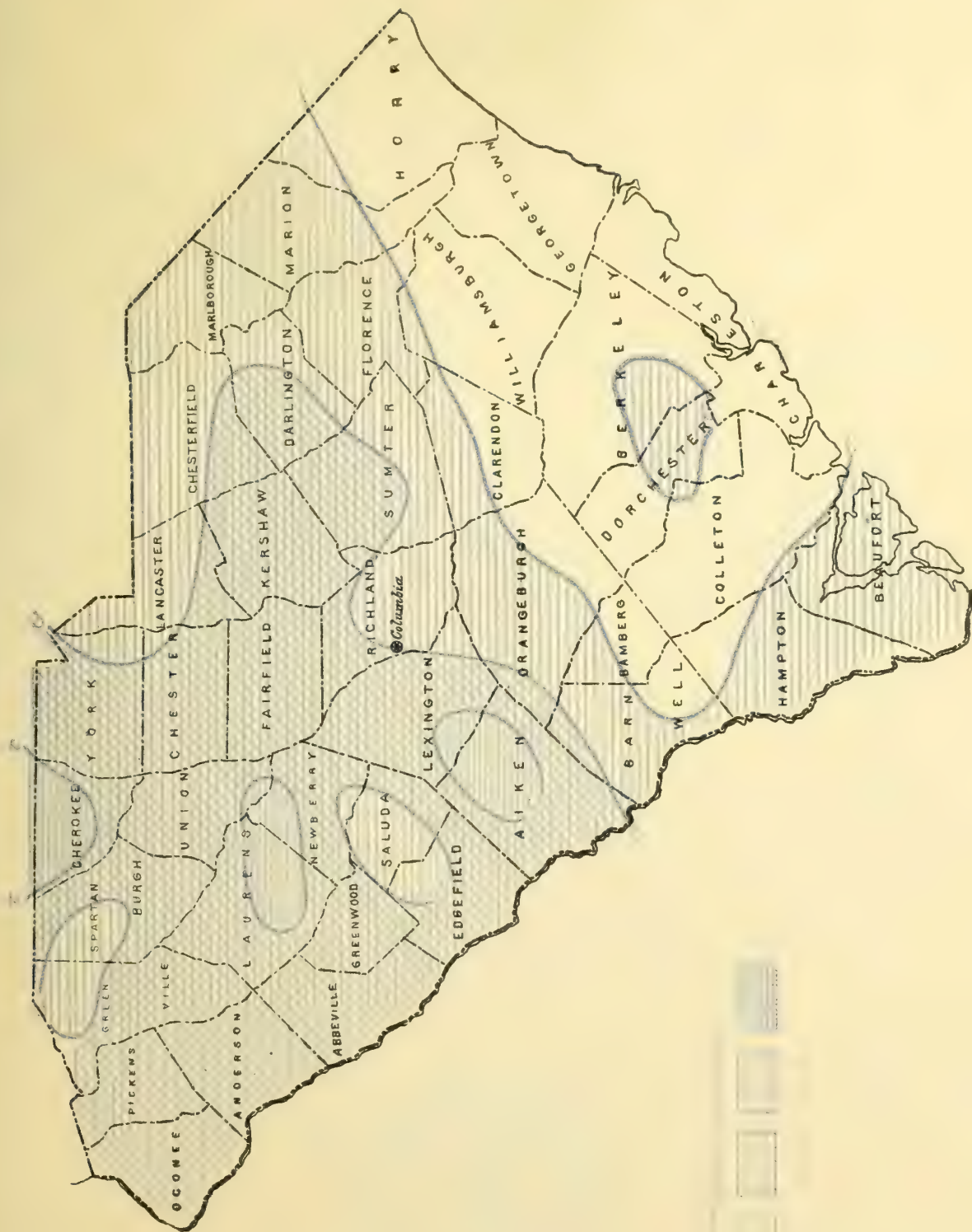


### STATIONS.

[illegible]



TOTAL PRECIPITATION FOR APRIL, 1900.





## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

APRIL, 1900

## DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1900.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Allendale																			.40	1.15	1.22	.90			.05					.06		3.78	
Augusta, Ga.		†	†	.02					.07	.10	.54	†						1.42	2.19	.79	2.37	.01		.04							†	7.59	
Batesburg				.20	.10						.10	.15						1.20	2.30	.85	.55		.05	.50	†							6.00	
Beaufort									.11		.02	.77						.38	1.35	.17	.48	.53		.16				.02	.04	.37	.14	4.54	
Blackville				†						.12	.23	.03	†					.04	1.15	.75	.44			.09	.02							5.87	
Calhoun Falls				.44							1.28	.05						.56	1.70	.98	1.25	.04		.81								7.11	
Camden			†	.23					.01	.23	.11	.02						†	.02	4.35	1.05	1.01	.01	.12	.01	†						†	7.17
Charleston				†					.18	.08		.14	.14					†	1.14	1.30	.10	.19	.01	.39			.75					3.42	
Charlotte, N. C.		.07	†	.78					†		.30	.36						†	1.70	.04	1.01	.73	†	.29			.04					5.32	
Cheraw(1)				.17						†		.13	.01					†	1.90	.87	1.93											5.01	
Cheraw(2)			†	.19					†	†	.16	†						†	2.42	.45	1.85	†		.02	.03							5.12	
Clemson College		.02	.10	.30						.56	.64							.50	1.09		1.74	.78		.22	.65		.29	.50				7.39	
Columbia			†	.17					†		.27	.05						3.06	.83	.97	†			.28								5.03	
Conway				†	†					†		.70							1.90	.25	.95											3.00	
Darlington, near			.21						†	.25	.15	†						1.12	1.51	.55	3.00	.01										6.20	
Edisto			†	.16						.25	.42	.58						.75	1.75	.92	.25			.12								5.20	
Effingham			†	†							.02	.45	†					†	1.75	1.95	.50											4.40	
Fairbluff, N. C.			†	.12						.18	.22	.70							.80	.26	1.94											4.22	
Florence				.12	†				†	.26	.46							.08	1.39	.25	2.05	.03										4.64	
Gaffney			.02	.65						.10	.55							.75	1.35	.35	4.17	.03	.52		.06							8.53	
Georgetown				.45							.75								1.15	†												2.35	
Gillisonville									.03		†	.13	.70	.02				.02	1.03	1.53	.36	†	.13				.87	.05	.18	.76		4.96	
Greenville			†	.57					†	†	.13	.70	.02					.60	1.13	.75	3.33	.20		.35		.02	.12					7.92	
Greenwood				.32						†	.95	.17						.26	1.92	.30	1.56	.05	.70		.05							7.28	
Horse Cove, N. C.																																	
Holland										1.12	1.00							1.35	.36	1.50	.08	.18	1.25			.05	.15		.15			7.19	
Kingstree(1)				.07						.09	.20	.78							.85	.88	.67	.06										3.60	
Kingstree(2)				.07						.09	.22	.79							.85	.88	.70	.06										3.66	
Liberty			†	.19					†		.45	.35						.25	1.25	1.60	.80											6.01	
Little Mountain			†	.10	.23				.02		.38	.11						2.00	.05	1.60	.85	.16		.28	.05					.21		6.04	
Longshore				.26					.01	.87								1.63	2.31	.73	1.07	.44	.03	.54	.03		.18					8.50	
Pinopolis				.03				.07		1.20								.01	1.30	.34	.43											3.95	
Raleigh, N. C.			†	.64					†		.48	1.11							.18	.70	.71	.04	.01		.21							4.09	
St. Georges				.10						.12	.24							.25	1.70	.15	.90	.10		.13								3.69	
St. Matthews				.08						.10	.26							.08	3.10	1.10		.70	.05		.05	.05		.05					4.62
St. Stephens				.10						.10			1.33						1.40	.23	.53			.02								3.17	
Santuc			†	.04	.23				.01		.36	.15						.64	2.59	.01	.79	.75		†	.42							6.00	
Savannah, Ga.				†						†		.18						†	.59	1.68	.23	.45		.14	.68	.01	†	.01		.30	.72		4.99
Shaws Fork				†					.09		.56							.80	4.20	1.75	2.20	.07	.04	.19			.42						10.32
Smiths Mills			†	.12	†					.18		.34							.60	1.60	.25			.10								3.19	
Society Hill				.18						.10	.13							.12	1.55	.84	2.05	†									.10		5.07
Spartanburg			†	.50					†									†	.30	.90	.80	2.88	.02		.50		.04						5.94
Statesburg				.04	.09				†		.55							.12	2.24	.68	2.62	.02			.23								6.59
Summerville									†		.02	3.27							1.02	.48	.47	.05		.82	†					.01		6.14	
Temperance			.10	.16						.18	.57								2.27	.18	1.51	.54				†						5.51	
Trenton			†	.01	.11					.14	.35							.64	2.34	.16	.81	.09			.09					.30			5.04
Trial				.04	†					.24	.20	.09						†	1.14	.35	1.17	†			†								3.23
Walhalla				.59					†		*	*.95							1.95					.42			.48						6.88
Wilmington, N. C.			†	.08					†		.03	.40							.06	.10	.16	†		.02									1.85
Winnsboro										.93								.35	2.10	†	1.37	1.45		.60		.15							6.95
Winthrop College			.03	.23					†		.31	.20							2.10	.01	1.46	.29	.17		.33	†							5.13
Yemassee									†		.36	.27							.05	1.10	.40	.95	.06		.12	.64							3.26
Yorkville			.11	.05	.48														2.97	†	1.52	.90	†	.80									7.46

\* Precipitation included in that of the following day.

† indicates trace, less than 0.01 inch.



EE. 95  
D. 50  
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1900.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MAY, 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

**CLIMATE AND CROP SERVICE**

OF THE

**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

Vol. III. COLUMBIA, S. C., MAY, 1900. No. 5.

**CLIMATOLOGY FOR THE MONTH.****Temperature, in Degrees Fahrenheit.**

The mean temperature for the month of May, 1900, was 70.2°, which is 1.5° below the normal. The highest local mean was 73.8° at Charleston, and the lowest local mean was 65.9° at Greenville. The highest temperature for the month was 96° at Liberty on the 13th and Yorkville on the 14th. The lowest temperature was 38° at Trial on the 11th, and at Walhalla on the 10th, making the State range 58°. The greatest local range was 56° at Liberty, and the least local range was 29° at Charleston. The mean of the daily maximum temperatures was 81.8°, and of the daily minimum temperatures was 58.5°.

Frosts.—Light frost was reported from Longshore and Santuc on the 11th, and from Shaw's Fork on the 10th. Climate and crop correspondents reported light frost from points in Cherokee, Colleton, Greenville, and Spartanburg counties on the 10th and 11th.

**Precipitation, in Inches.**

The average precipitation for May, 1900, was 2.37 inches, which is 0.91 below the normal. The greatest local amount for the month was 4.99 inches at Yorkville, and the least local amount was 1.17 at Society Hill. The greatest 24-hourly fall was 2.60 inches at Columbia on the 17-18th. The average number of days with rain was 5, ranging from 2 at Walhalla to 9 at Charleston.

Hail.—Hail was reported from Abbeville on the 3d; Longshore, 18th; Orangeburg and Trenton, 9th; Spartanburg, 4th.

Heavy Rains.—Beaufort, 1.60 inches in 3 hours on the 18th; Columbia, 2.25 inches in 2 hours 5 minutes on the 18th; Calhoun Fall, 1.42 inches in 2 hours on the 18th; Clemson College, 0.77 inch in 1 hour 30 minutes on the 18th; Temperance, 0.83 inch in 1 hour 30 minutes on the 18th.

**CLIMATE AND CROPS.**

The effect on crops of the prevailing weather during May, 1900, was generally adverse to their rapid, or favorable de-

velopment, chiefly on account of cool nights which retarded their growth, and of lack of moisture to germinate seeds that were planted late in April and during the first decade of May.

There were no unusually high temperatures during the month, and the average of the daily maximum (81.8°) indicates about normal day temperatures, but the average of the daily minimum temperatures (58.8°) also indicates that the night temperatures were lower than usual, and this was most marked from the 9th to the 12th, and during the third decade. The average daily range of temperature for the month was 23.6°. Light frosts occurred on the 10th and 11th, at a few points, doing little or no injury except to tender vegetation.

There was less than the usual amount of precipitation, with the exception of small areas in the north-central and extreme southeastern portions where, at a few places, there was a slight excess. Even at points where there was the least rainfall, the drought was not severe, and only the surface soil became very dry, preventing the rapid germination of seeds, while deep-rooted plants did not, at any time, suffer from lack of moisture. The general rain of the 17-18th supplied enough moisture for the needs of plants for the remainder of the month.

The month was an exceedingly favorable one for the prosecution of farm work.

Destructive insects were numerous. Cut and bud worms destroyed much young corn, especially on bottom lands; Colorado beetles injured white potatoes; grasshoppers infested a few fields of cotton; and by the close of the month worms made their appearance in large numbers on tobacco.

Cotton planting was quite generally finished by the 20th, but germination and growth of late planted seed was slow, and stands were irregular. The condition of early planted cotton was better, but the plants remained undersized.

Corn did well, except on bottom lands where the stands were kept broken by worms, necessitating replanting. Wheat developed into an excellent crop and ripened during the latter part of the month. Oats improved, but not enough so to make the crop noteworthy for its excellence, except in spots.

The weather was generally unfavorable on tobacco, and the plants remained stunted. Rice planting was hindered, early in the month, by high water in the lower rivers, but eventually about the usual area was seeded. Minor crops, gardens and truck made favorable progress. The peach crop continued promising, although considerable dropping was reported. Apple and pear trees blighted badly. Cultivated and wild berries were plentiful. Fields were as a rule well cultivated, and were unusually free from grass and weeds.

**ERRATA.**

April, 1900, report, page 5, mean temperature at Clemson College, 60.0°, should read 60.4°. Page 5, mean temperature at Greenville, 57.5°, should read 57.6°. Page 5, the total precipitation at Little Mountain, 6.05, should read 6.04.



## MISCELLANEOUS PHENOMENA (with dates).

Weather.—The average number of clear days was 19, of partly cloudy days was 7, and of cloudy days was 5.

Winds.—The prevailing direction of wind was from the southwest at 28 stations, from the south and west at 5 stations each, and from the north and northeast at 1 station each.

High Winds.—High winds were reported from Charleston on the 10th; Liberty, 4, 5, 6, 8, 9, 10, 11, 19, 20; Walhalla, 3, 4, 5, 8, 9, 19.

Earthquake.—Summerville 10th, at 6.20 p. m.

Solar Halos.—Charleston, 5, 8, 9, 13, 21; Gillisonville, 18; Santuc, 9, 30, 31; Statesburg, 23.

Lunar Halos.—Blackville, Columbia, Shaw's Fork, Walhalla, 7; Charleston, 1, 13; Gillisonville, 3, 7; Santuc, Society Hill, 7, 8; Statesburg, 5, 8.

Fogs, Dense.—Beaufort, 22; Blackville, Longshore, 1; Camden, 27; Gillisonville, 14, 15, 29; Liberty, 3; Little Mountain, 2; Society Hill, 16; Statesburg, 17.

Thunderstorms.—Beaufort, 2, 9, 17, 18, 20, 23, 25; Blackville, 1, 2, 9, 18; Charleston, 9, 17; Cheraw (2), 1, 3, 9, 17, 18, 24; Clemson College, 2; Columbia, 9, 18; Gillisonville, 1, 2, 8, 18, 23, 24, 25; Liberty, 18, 24; Longshore, 2, 8, 9, 18; Santuc, 3, 18, 24; Shaw's Fork, 1, 18; Society Hill, Statesburg, 9; Spartanburg, 4; Trenton, 1, 2, 3, 9, 17, 18; Walhalla, 18; Winthrop College, 3, 17, 18, 19; Yorkville, 3, 9, 24.

## ECLIPSE OF MAY 28, 1900.

Clear skies, light winds, and an atmosphere nearly free from dust and haze prevailed along the line of totality in South Carolina.

These meteorological conditions underwent but slight change during the event. Observations of the wind direction and estimated force were made on the summit of Little Mountain, S. C. The direction of the wind was from the southwest, at the beginning of totality, but as the obscuration increased the wind became more westerly, so that for a short time before, during, and for a few minutes after totality it was due west; as the obscuration decreased, the wind gradually shifted to the southwest. The force of the wind exhibited a similar change, from merely a light breeze at the time of first contact, to a fresh or brisk wind while it blew from the west; after which it gradually subsided until after the last contact it was again a gentle zephyr.

The temperature gave an inverted range from 7.30 a. m. to 8.44 a. m., that is to say, a fall of  $4.8^{\circ}$ . After 8.44 a. m. there was a gradual rise which became rapid, as soon as the sun was, half or more, uncovered. On the following day, under nearly like meteorological conditions, the temperature

rose  $5.5^{\circ}$  from 7.30 to 8.45 a. m. Thus the eclipse effected a change of  $10.3^{\circ}$

The shadow bands were not as plainly marked as was expected, and no data could be secured except the direction they moved and the time they occurred.

## REMARKS BY OBSERVERS.

Batesburg.—Cool nights during the month retarded the growth of crops.—E. J. Hite.

Cheraw (1).—During the eclipse of the sun on the 28th, the temperature fell rapidly at the time of totality, from  $70^{\circ}$  to  $66^{\circ}$ , rising again rapidly as the obscuration passed.—W. R. Godfrey.

Beaufort.—The weather during May was fine, with no extremes of heat or cold. Rainfall on the 25th was excessive, but did damage on lowlands only. Crops generally grew well.—S. M. Benton.

Society Hill.—The eclipse of the sun on the 28th, was nearly total at this place, the unobscured portion appeared as a straight line. The temperature fell  $3^{\circ}$  during the eclipse.—Maj. J. J. Lucas.

Trenton.—Eclipse of the sun on the 28th. Precipitation 1.00 inch less than the 8-year average for May, and 0.53 inch less than the 7-year average for the first 5 months of the year.—C. A. Long.

Holland.—The planting of cotton was finished about the 12th, two weeks later than usual. Wheat and oats are the best crops in years, both were ready to harvest on the 31st. Fruit of all kinds very fine.—Dr. J. W. Earle.

Santuc.—The first portion of the month was dry, and crops made slow growth, but during the latter half, they did better. Planting operations were later than usual. Worms were very destructive to corn just coming up.—E. W. Jeter.

Liberty.—Wheat fired and rusted during the month. Oats improved wonderfully after the rains of the 17-18th, which also brought up cotton, and by the close of the month fine stands of cotton were general. Birds and worms damaged much corn. The berry crop is fine.—John T. Boggs.

Winthrop College.—6th, peaches as large as hickory nuts; 29th, good stand of wheat; heads are full and just beginning to ripen. Rock Hill proves to have been just outside (north-west) of the path of totality of eclipse of the 28th. Shadow bands were distinctly shown here.—Dr. Cleveland Abbe, Jr.

Gillisonville.—During the month, the days were warm and the nights were cool, conditions not favorable for plant growth, and crops grew slowly. The weather favored cultivation, and fields are free from weeds and grass. Peaches did well, but apple and pear trees blighted badly.—Sam P. Saltus.



CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1900.																						
STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.							Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.				
Allendale	Barnwell	186	12	70.1	-2.7	87	8	47	11	30	3.02	-0.50	1.10		5	23	1	7	SW.	B. F. Wilson.		
Augusta, Ga.	Richmond	134	29	71.2	-0.8	88	13	48	11	33	2.01	-1.19	0.59		5	20	5	2	SW.	Weather Bureau.		
Batesburg	Lexington	656	12	70.8	-1.0	91	8	49	*10	35	1.71	-2.19	0.70		5	23	6	6	SW.	E. J. Hite.		
Beaufort	Beaufort	28	14	73.2	-1.0	86	16	51	11	25	3.62	+1.19	1.60		6	21	6	4	SW.	S. M. Benton.		
Blackville	Barnwell	293	12	71.4	-2.0	92	7	45	11	35	2.99	-0.74	1.94		6	22	7	2	NE.	G. D. C. Lange.		
Calhoun Falls	Abbeville	354	7								3.04	+0.03	1.42		4	27	0	4	SW.	P. J. Pfeiffer.		
Canden	Kershaw	222	34								1.67	-1.45	0.61		5	17	9	5	SW.	B. Ammons.		
Charleston	Charleston	48	31	73.8	+0.8	82	20	59	11	21	1.38	-2.21	0.51		9	15	12	4	SW.	Weather Bureau.		
Charlotte, N. C.	Mecklenburg	808	22	69.0	0	91	14	44	10	32	2.11	-1.79	0.70		6	14	8	9	SW.	Weather Bureau.		
Cheraw (1)	Chesterfield	114	12	70.0	-1.2	91	15	43	11	39	2.86	-0.18	0.90		7	19	2	10	SW.	W. R. Godfrey.		
Cheraw (2)		108	7								2.21	-1.47	0.70		6	18	9	4	SW.	Jno. H. Powe.		
Clemson College.	Oconee	850	9	68.0		92	14	40	11	42	2.12	-0.94	1.25		5	9	19	3	W.	Prof. C. C. Newman.		
Columbia	Richland	336	13	71.6	-0.4	91	13	47	11	39	3.50	-0.36	2.60		5	20	6	5	SW.	Central Office.		
Conway	Horry	49	9								1.42	-1.05	0.52		6	16	6	9	SW.	P. Quattlebaum.		
Darlington	Darlington	175	5								1.19		0.36		6	18	10	3	SW.	E. R. McIver.		
Edisto	Bamberg	143	7								3.02	-0.57	0.95		5	18	8	5	SW.	Miss Jerry Carter.		
Effingham	Florence	106	8								2.23	-0.25	0.90		6	16	9	6	SW.	A. J. Howard.		
Fairbluff, N. C.	Columbus	73	6								1.73		0.66		5	18	8	5	SW.	I. M. Powell.		
Florence	Florence	156	12	71.0	-1.9	88	*8	46	11	31	1.72	-0.89	0.68		5	18	6	7	SW.	H. K. Gilbert.		
Gaffney	Cherokee		4								2.75		2.10		6	19	8	4	SW.	B. F. Camp.		
Georgetown	Georgetown	12	7	68.8	-3.8	85	*11	48	23	35	2.60	-0.80	1.50		3	28	1	2	SW.	W. T. Turbeville.		
Gillisonville	Hampton		5	71.6	-3.0	94	7	41	11	44	2.55		1.50		5	19	5	7	SW.	Sam P. Sauts.		
Greenville	Greenville	1,000	8	65.9	-2.3	87	16	41	11	45	1.90	-1.44	1.51		4	20	5	6	SW.	Mrs. S. A. Crittenden.		
Greenwood	Greenwood	671	12	71.0	-0.6	93	*15	47	10	35	1.61	-1.57	0.84		3	23	1	7	SW.	M. M. Calhoun.		
Horse Cove, N. C.	Macon	3,800	8	62.8	+0.1	81	14	39	4	33	2.28	-2.57	1.09		6	14	9	8	SW.	B. C. Hawkins.		
Holland	Anderson		12	67.0	-2.5	88	*15	42	10	40	2.87	-0.52	1.90		3	19	5	7	SW.	Dr. J. W. Earle.		
Kingstree (1)	Williamsburg	77	12	69.8	-2.7	89	*7	43	11	33	1.50	-2.01	0.68		5	19	6	6	SW.	C. J. Lesesne.		
Kingstree (2)		77	6								1.47		0.67		5	18	8	5	SW.	W. H. Matthews.		
Liberty	Pickens		6	69.2	-2.4	96	*13	40	11	46	2.04		1.10		3	26	0	5	SW.	Jno. T. Boggs.		
Little Mountain	Newberry	711	7	71.4	-1.3	91	*13	47	10	34	2.39	-0.50	1.90		5	17	12	2	SW.	John M. Sease, M. D.		
Longshore	Newberry	530	7	69.8	-1.4	91	*13	44	11	40	2.13	-0.34	1.35		4	17	7	7	W.	W. G. Peterson.		
Pinopolis	Berkeley		7	69.8	-0.9	84	*7	48	11		2.60	-1.10	1.33		4	16	9	6	SW.	E. P. Ravenel.		
Raleigh, N. C.	Wake	376	14	68.9	+0.9	93	14	46	10	32	3.12	-2.08	0.87		10	16	12	3	SW.	Weather Bureau.		
St. Georges	Dorchester	109	12	70.2	-2.3	88	7	48	11	31	3.12	-0.03	0.93		6	19	8	4	SW.	W. B. Rayson.		
St. Matthews	Orangeburg	254	12	71.6	-1.4	90	7	49	11	33	2.75	-0.54	1.02		6	19	5	7	SW.	J. S. Waunamaker.		
St. Stephens	Berkeley	73	8								1.81	-2.67	0.90		6	18	7	6	SW.	C. T. Shuler.		
Santuc	Union	512	7	69.2	-0.9	93	14	39	11	44	2.06	-0.56	0.91		6	16	11	4	W.	E. W. Jeter.		
Savannah, Ga.	Chatham	71	31	72.9	-1.1	87	19	57	11	24	2.65	-0.12	1.07		8	15	14	2	SW.	Weather Bureau.		
Shaws Fork	Aiken	500	7			85	6	42	11	34	1.43		0.80		6	17	13	1	SW.	Geo. H. Atwood.		
Smiths Mills	Williamsburg	62	5								3.25		2.00		6	19	6	6	W.	H. van Keuren.		
Society Hill	Darlington	192	9	71.5	+0.6	88	*8	47	10	31	1.17	-1.87	0.57		5	14	13	4	SW.	J. J. Lucas.		
Spartanburg	Spartanburg	875	9	68.8	-2.0	93	*14	40	11	41	3.17	+0.13	2.32		5	22	3	6	SW.	F. P. Robinson.		
Statesburg	Sumter	500	20	72.0	+1.0	90	*13	50	11	36	2.46	-1.00	1.13		6	18	7	6	SW.	W. W. Anderson, M. D.		
Summerville	Dorchester		3	69.4		85	*7	45	10	28	2.51		1.16		6	24	4	3	SW.	Prof. Jno. Gadsden.		
Temperance	Marion	100	2	71.0		92	*14	42	11	37	2.53		0.83		4	17	12	2	SW.	J. R. Reaves.		
Trenton	Edgefield	620	7	71.9	-1.7	87	*8	52	10	24	1.74	-1.00	0.76		4	17	10	4	SW.	C. A. Long.		
Trial	Berkeley		14	67.5	-3.2	87	*7	38	11	40	1.77	-3.29	0.80		5	17	7	7	W.	Etsell Gaillard.		
Walhalla	Oconee	1,061	10	66.0	-1.6	89	14	38	10	40	1.26		0.86		2	18	12	1	SW.	S. M. Pagan.		
Wilmington, N. C.	New Hanover	52	31	70.0	0	87	28	52	27	31	3.32	-0.69	2.49		7	19	8	4	SW.	Weather Bureau.		
Winnboro	Fairfield	545	11	68.0	-3.8	85	14	47	10	26	2.25	-0.18	1.40		4	26	5	0	SW.	John W. Seigler.		
Winthrop College	York	690	1	69.8		92	14	45	10	35	2.96		1.77		6	17	5	9	SW.	Prof. Cleve'nd Abbe, jr.		
Yemassee	Beaufort	23	5	73.8		92	*7	47	11	36	3.87		1.30		6	18	7	6	SW.	R. G. Smith.		
Yorkville	York	680	12	71.8	+1.4	96	*14	45	10	39	4.99	+1.84	2.42		5	15	11	5	SW.	J. R. Schorb.		
MEANS—highest, lowest and dates, etc.					70.2	-1.5	96	*13	38	*10	46	2.37	-0.91	2.60		5	19	7	5	SW.		

a, b, c, etc., indicate number of days missing, with values as follows: a 1, b 2, c 3, etc.

\* On other dates also.

† Mean from 7 a. m., 2 and 9 p. m. observations.



### STATIONS.

[illegible]



TOTAL PRECIPITATION FOR MAY, 1900.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1900.

STATIONS.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Allendale		.07	.07															.98	1.10					.80								3.02
Augusta, Ga.	.50	.05							.18								.14	.38	.11					.59	.06							2.01
Batesburg			.05							.70								.23	.43						.30		†					1.71
Beaufort	†	.08							.27									.12	.88					.67		1.60						3.62
Blackville	†		.09						.41								.23	1.94						.27	.05							2.99
Calhoun Falls		.21							.42									1.42						.99								3.04
Camden	.18								.12									.60	.61					.16								1.67
Charleston	.01	.10							†	.01								.40	.46	.05				.33	.01	†	.01					1.38
Charlotte, N. C.		.32	†		†				.30									.03	.70					.18	.58	†						2.11
Cheraw(1)	.90	.02							.52									.27	.53					.05	.57	†						2.86
Cheraw(2)	.65			†					.48									.30	.70	†					.05	.03	†					2.21
Clemson College									.07									.77						.91	.34	.03						2.12
Columbia			†						.44									.36	2.42					.12	.16							3.50
Conway		.10	.15						.25									.52	.25					.15								1.42
Darlington, near									.35									.31	.36					.05	.07							1.19
Edisto	.02			†					.44									.86	.95					.75								3.02
Effingham	.10								.25									.90	.75					.22	.01							2.23
Fairbluff, N. C.				.23					.23									.40						.66	.21							1.73
Florence									.56									.68	.38					.08	.02	†						1.72
Gaffney				.12		.02												.06	.25					2.10	.20							2.75
Georgetown		1.00							.10									.15	1.50					1.50								2.60
Gillisonville	.01	†						.01										†	.25				1.51	.09	.05							2.63
Greenville									.12									.84					.65									1.90
Greenwood									.03									.73	†				1.09	.21	.16	†						1.61
Horse Cove, N. C.		.06	†																													2.28
Holland									.22									.75					1.90									2.87
Kingstree(1)		.28							.03									.68	.10					.41								1.50
Kingstree(2)		.28							.02									.67	.09					.41								1.47
Liberty									†									.70					1.10	.24	†							2.04
Little Mountain									.27									.34	1.60					.09	.09							2.39
Longshore									.40									.01	1.35				.37									2.13
Pinopolis									.02									.60	1.33					.65								2.60
Raleigh, N. C.	.75		.11				.01		.35	.01								.08	.87	.18	.16			.60								3.12
St. Georges		.65							.24									.93	.70					.30	.30							3.12
St. Matthews		.65							.85									.06	1.02					.15	.02							2.75
St. Stephens	.04	.02							.15									.90	.15					.55								1.81
Santuc.			.12						†									.74					.24	.91	.02	.03						2.06
Savannah, Ga.	†	.17	.29						.02									†	.99	.08	.02		1.07	†	†	.01						2.65
Shaws Fork	.17	.13							.06									.07	.80					.20								1.43
Smiths Mills		.20	.05						.20									.40	.40					2.00								3.25
Society Hill									.27									.23	.57					.07	.03							1.17
Spartanburg	†			†														.02	.35					2.32	.40	.08						3.17
Statesburg									.31									.89	1.13					.01	.02	.10						2.46
Summerville	.31	.01							.06									.35	1.16					.62								2.51
Temperance			†						.35									.72	.83	†				.63								2.53
Trenton									.34									.13	.76					.51								1.74
Trial									.21									.80	.44					.27		.05						1.77
Walhalla		†	†						†									.40					.86	†	†							1.26
Wilmington, N. C.		†	.24	†		†			.27	†								.07	†	†	.20	.01		.04	2.49	†						3.32
Winnsboro									.25									.40	1.40					.20								2.25
Winthrop College			.04		†				†									.68	1.09	.20	†			.34	.61							2.96
Yemassee	.20	.45	†						†									.62	1.27					1.30		.03						3.87
Yorkville			†		†				.25									†	2.42	.30				.37	1.65							4.99

\* Precipitation included in that of the following day.

† indicates trace, less than 0.01 inch.



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D. 50  
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1900.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

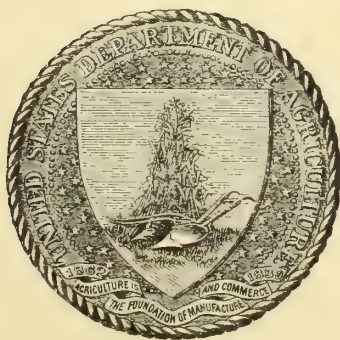
WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

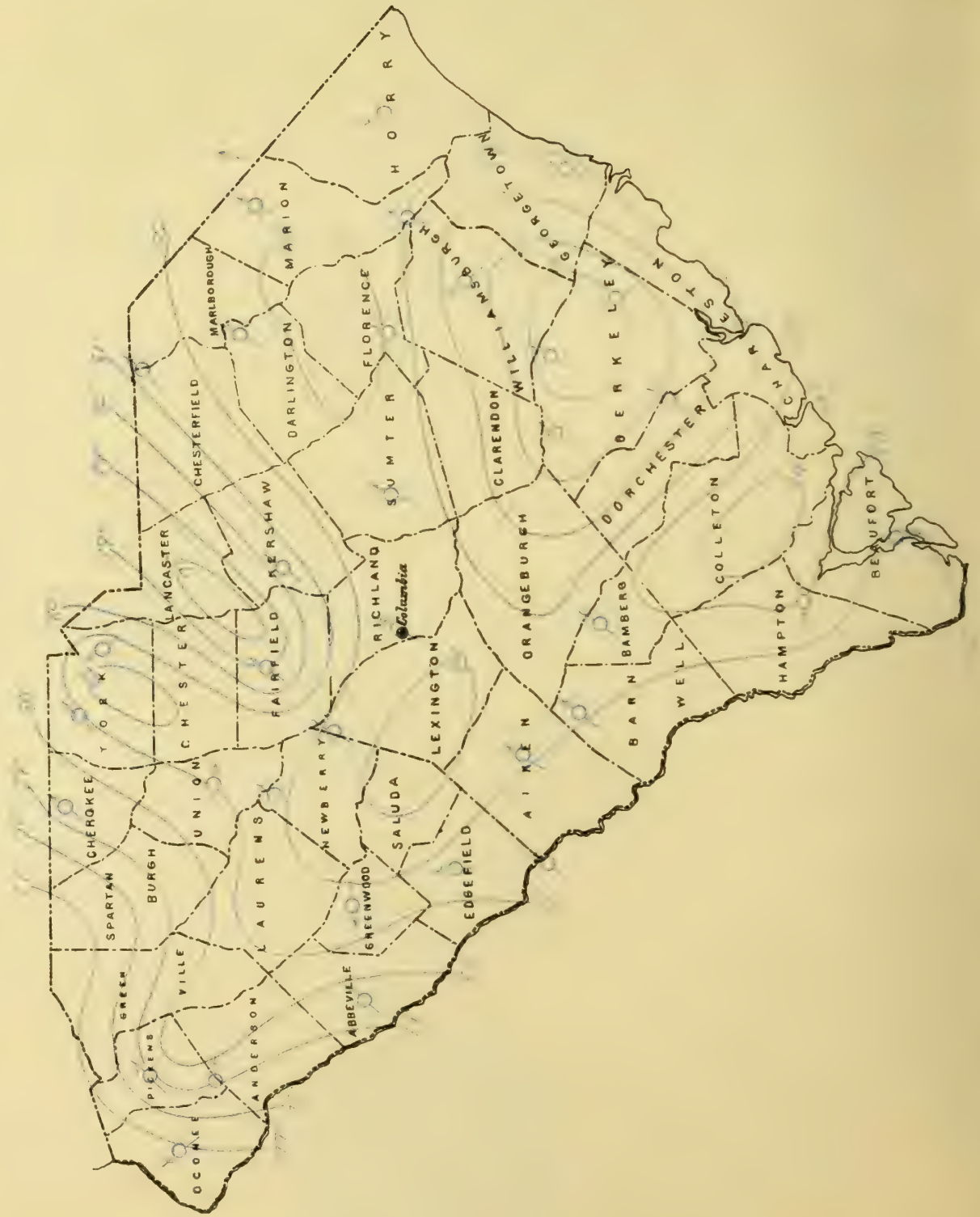


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JULY, 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

**CLIMATE AND CROP SERVICE**

OF THE

**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,

COLUMBIA, S. C.

VOL. III.

COLUMBIA, S. C., JULY, 1900.

No. 7.

**CLIMATE AND CROPS.**

The weather conditions during July, 1900, were generally favorable to crop growth and development. There were no excessively hot periods, except locally over limited areas, neither were there any cool spells such as sometimes occur in this month. The average daily range of temperature was  $20^{\circ}$ , and there were no sudden transitions from heat to cold or the reverse; the extreme daily variability in mean temperature, in the central counties, was  $5^{\circ}$ , and the average less than  $2^{\circ}$ . This uniformity in heat was in the highest degree favorable to normal crop development.

There was greater diversity in the matter of rainfall which for different localities ranged from about one inch to nearly twelve inches, and for the whole State averaged 64 per cent. of the normal amount. The region around Charleston, and the whole or portions of Greenwood, Saluda, Laurens, Abbeville, Anderson, Oconee, and Greenville counties, and very restricted areas in various other portions, suffered to a considerable extent for lack of moisture, but the remainder of the State, and by far the greater portion, received enough rain for the current needs of all crops.

Thus the variability in moisture supply caused a corresponding diversity in the condition of crops, with, however, the general condition of all crops more promising than during the previous month. The dry and hot weather during the first 20 days was very favorable for cleaning fields of grass and weeds, and for giving corn and cotton the much needed cultivation preparatory to laying by, which the heavy rains in June had rendered impracticable. The grass and weeds had a rank growth necessitating heavy working to destroy them, and the heavy working at this season, was in places injurious to corn and cotton.

Crops that came to maturity during this month, such as melons, peaches, and garden truck reflected the injurious effects of the June excessive rains, to a marked degree. Tobacco showed improvement, and was unusually free from worms.

The absence of harmful insects in destructive numbers was a marked characteristic of the month, as was the general

absence of severe wind or hail storms which were noted on two dates only, and over very small areas in portions of four counties.

Staple crops had suffered so much impairment during June that the favorable weather in July at best barely enabled them to recover normal conditions, and to a considerable extent they failed to do so, especially old corn that came to maturity during the month, and cotton on light or sandy soils from which the applied fertilizers had leached. The minor crops did very well, and were promising by the end of July.

**CLIMATOLOGY FOR THE MONTH.****Temperature, in Degrees Fahrenheit.**

The mean temperature for the month of July, 1900, was  $81.2^{\circ}$ , which is  $1.7^{\circ}$  above the normal. The highest local mean was  $84.2^{\circ}$  at Yemassee; the lowest local mean was  $77.0^{\circ}$  at Walhalla. The highest temperature for the month was  $104^{\circ}$  at Batesburg on the 22d; the lowest temperature for the month was  $55^{\circ}$  at Walhalla on the 9th, making the State range  $49^{\circ}$ . The greatest local monthly range was  $41^{\circ}$  at Clemson College and Temperance, and the least local monthly range was  $24^{\circ}$  at Allendale and Charleston. The mean of the daily maximum temperatures was  $91.2^{\circ}$ , and of the daily minimum temperatures was  $71.2^{\circ}$ .

**Precipitation, in Inches.**

The average precipitation for July, 1900, was 4.08, which is 2.29 less than the normal amount. The greatest local amount for the month was 11.29 inches at Saint Matthews, and the least local amount was 1.05 inches at Greenwood. The greatest 24-hourly fall was 4.60 inches at Saint Matthews on the 28th. The average number of days with rain was 9, ranging from 3 at Georgetown to 15 at Columbia.

Hail.—Hail fell at Liberty on the 8th, in Cherokee county on the 11th and 28th, in Marion, Orangeburg, and Barnwell counties on the 28th.

Heavy Rains.—Beaufort, 1st: 2.12 in 3 hours; Beaufort, 27th: 1.60 in 30 minutes; Blackville, 11: 2.56 in 3 hours 5 minutes; Camden, 26–27th: 4.05 in 24 hours; Clemson College, 11th: 0.51 in 30 minutes; Liberty, 30th: 1.51 in 1 hour; Longshore, 2d: 1.92 in 1 hour; Saint Matthews, 28th: 4.60 in 24 hours; Shaws Fork, 24th: 0.95 in 30 minutes; Spartanburg, 13th: 1.06 in 30 minutes.

**MISCELLANEOUS PHENOMENA (with dates).**

Weather.—The month gave an average of 14 clear, 11 partly cloudy, and 6 cloudy days. There was less than the usual amount of cloudiness for July.

Winds.—The prevailing direction of the wind was from the



southwest at 30 stations; from the south at 5 stations; from the southeast at 3 stations, and from the east and west at 2 stations each.

High Winds.—Blackville, 11; Charleston, 9.

Solar Halos.—Charleston, 8, 23; Gillisonville, 2, 13.

Lunar Halos.—Blackville, Shaws Fork, 10; Charleston, 6, 7, 8; Statesburg, 6, 10, 13.

Fogs, Dense.—Camden, 15, 27; Cheraw (2), Society Hill, 3; Clemson College, 24; Gillisonville, 2, 3, 13; Liberty, 15, 27, 30; Statesburg, 29, 30; Trial, 10, 28; Walhalla, 3, 24.

Thunderstorms.—Thunderstorms were noted somewhere within the State on every date except the 17th, as follows: Beaufort, 1, 2, 3, 4, 6, 8, 9, 10, 15, 19, 21, 22, 23, 24, 26, 27, 28, 29, 30; Blackville, 11, 12, 15, 19, 21, 22, 23, 24, 25, 28; Camden, 25, 27; Charleston, 1, 2, 8, 11, 18, 21, 22, 24, 27, 28, 29; Cheraw (2), 2, 6, 7, 12, 19, 22, 23, 26; Columbia, 2, 3, 12, 18, 19, 20, 23, 24, 26; Gillisonville, 1, 2, 7, 8, 24, 26, 27, 28, 29, 30; Liberty, 2, 8, 13, 21, 26, 30; Longshore, 2, 3, 4, 5, 8, 12, 13, 14, 15, 22, 23, 26; Santuc, 2, 8, 22, 23, 25, 26, 31; Shaws Fork, 1, 19, 24, 27; Society Hill, 6, 19, 23, 26; Statesburg, 1, 2, 3, 11, 12, 19, 20, 22, 23, 24, 26, 28; Trenton, 1, 2, 3, 8, 11, 16, 23, 24, 25, 26, 27, 29; Trial, 1, 11, 12, 19, 22, 24, 26, 27, 28, 29; Walhalla, 1, 11, 12, 13, 22, 23, 25, 26; Winthrop College, 2, 8, 22, 23, 26, 30; Yorkville, 2, 8, 13, 21, 22, 24, 26, 30, 31.

#### ERRATUM.

JUNE, 1900.—Monthly report, page 5: mean temperature at Holland, 72.1°, should read 73.1°.

#### LOSS BY LIGHTNING.

Thunderstorms occurred on 25 days in June and on 30 days in July. Most of the storms were of moderate to slight intensity and attended by comparatively little thunder and lightning.

Previous to June no loss by lightning was reported, but during June and July reports were received of two churches, four barns, and seven dwellings having been struck and more or less damaged. Of these thirteen buildings but one, a barn, was completely destroyed by fire entailing a loss of \$550, which was the largest single item of loss reported. The total loss by lightning for the year up to August 1st, on buildings and contents, was \$1,113.

The loss from the killing of live stock was somewhat greater and included one horse, five oxen, and twelve mules, their aggregate value being estimated at \$1,550, making the total loss by lightning to August 1st, \$2,663.

The average annual number of deaths by lightning in South Carolina is thirteen, and has already been exceeded by one,

there having been fourteen fatalities during the first seven months of 1900.

#### REMARKS BY OBSERVERS.

Trenton.—Precipitation 2.66 inches less than the 8-year average for July, and 1.83 inches less than the 7-year average for the first seven months of the year.—C. A. Long.

Santuc.—There were no unusual phenomena during the month. The weather was very hot at times. Crops grew very well, but cotton and corn are in poor condition.—E. W. Jeter.

Batesburg.—The month was very dry up to the 24th, and crops suffered for rain. Cotton is dying from the effects of an insect that in appearance resembles a small yellow spider.—E. J. Hite.

Beaufort.—Temperature slightly below, and precipitation slightly above the normal. Cotton improved where it was clean. Cane, sorghum, slips, and peas look fairly well. Much of the fodder is burnt.—S. M. Benton.

Summerville.—Very little thunder and lightning during the month. Humidity 87 per cent. As compared with the same month in 1899, the month was warmer, but with much smaller range in temperature, and there was less cloudiness.—Prof. Jno. Gadsden.

Longshore.—9th, sundog on the left side of the sun; 10th, sundog in the morning. On account of the heavy rains during June, and on July 2d, crops got very grassy, but after hard work cotton was cleaned and is now doing fairly well.—W. G. Peterson.

Holland.—After a destructive drought of 21 days, rain fell on nearly every day to the close of the month. Cotton and corn improved wonderfully, and with subsequent favorable weather, there will be fair crops of cotton, late corn and potatoes. Wheat and oats gave good yields in thrashing.—Dr. J. W. Earle.

Liberty.—Seasonable weather characterized the month except that some sections were too dry to do good farm work. Cleaning crops after the June rains was extremely heavy work. All kinds of fruit is unusually plentiful, but much of it is rotting, and of inferior quality.—John T. Boggs.

Gillisonville.—The month was hot and humid during the daytime, and very pleasant at night. Cotton began to improve after the first week, and continued to do so throughout the month. Corn fired badly, two-thirds of the fodder being ruined. Peas, potatoes, and sugar cane promise well.—S. P. Saltus.



CLIMATOLOGICAL DATA FOR THE MONTH OF JULY, 1900.

STATIONS.	Counties.	Elevation—feet.	Length of record— years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.
Allendale	Barnwell	186	12	81.4	+0.6	94	*6	70	*10	23	4.97	-1.34	2.50	.....	7	23	2	6	.....	G. M. Boland.
Angusta, Ga.	Richmond	134	29	81.8	+0.8	97	6	66	10	25	2.84	-2.53	1.07	.....	10	13	13	5	sw.	Weather Bureau.
Batesburg	Lexington	650	12	83.1	+3.5	104	22	68	11	33	2.29	-5.39	0.80	.....	6	21	6	4	.....	E. J. Hite.
Beaufort	Beaufort	28	14	81.8	-0.2	96	7	71	15	20	6.45	+0.38	2.12	.....	12	16	13	2	s.	S. M. Benton.
Blackville	Barnwell	293	12	82.5	+1.2	100	*6	65	10	28	6.63	+0.48	2.56	.....	12	8	21	2	sw.	G. D. C. Lange.
Calhoun Falls	Abbeville	354	34	.....	.....	.....	.....	.....	.....	.....	3.13	-1.94	1.68	.....	6	26	0	5	sw.	P. J. Pfeiffer.
Camden	Kershaw	222	7	.....	.....	.....	.....	.....	.....	.....	6.42	+1.45	4.05	.....	12	14	7	10	sw.	B. Ammons.
Charleston	Charleston	48	31	82.8	+0.8	97	6	73	31	19	1.59	-6.05	0.75	.....	7	7	22	2	s.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	22	79.4	+1.4	98	21	60	10	28	3.55	-1.90	0.62	.....	11	12	9	10	sw.	Weather Bureau.
Cheraw (1)	Chesterfield	114	12	81.7	+1.4	100	7	61	10	31	4.74	-1.17	1.45	.....	11	16	6	9	sw.	W. R. Godfrey.
Cheraw (2)	.....	108	7	.....	.....	.....	.....	.....	.....	.....	5.04	-2.11	1.41	.....	10	15	6	10	sw.	Jno. H. Powe.
Clemson College	Oconee	850	9	79.5	+0.6	98	*5	57	10	34	2.59	-3.69	0.63	.....	9	8	20	3	w.	Prof. C. C. Newman.
Columbia	Richland	336	13	82.2	+1.1	99	7	65	10	26	4.35	-1.25	1.03	.....	15	8	16	7	sw.	Central Office.
Conway	Horry	49	9	.....	.....	.....	.....	.....	.....	.....	4.06	-2.88	1.65	.....	7	15	5	11	s.	P. Quattlebaum.
Darlington	Darlington	175	5	.....	.....	.....	.....	.....	.....	.....	2.25	.....	0.71	.....	9	15	15	1	.....	E. R. McIver.
Edisto	Bamberg	143	7	.....	.....	.....	.....	.....	.....	.....	3.83	-2.11	0.90	.....	9	16	7	8	sw.	Miss Jerry Carter.
Edinburgh	Florence	106	8	.....	.....	.....	.....	.....	.....	.....	4.33	-0.85	1.40	.....	9	15	9	7	sw.	A. J. Howard.
Fairbluff, N. C.	Columbus	73	6	.....	.....	.....	.....	.....	.....	.....	4.04	.....	0.82	.....	12	15	9	6	sw.	I. M. Powell.
Florence	Florence	156	12	83.4	+2.3	99	*20	67	10	27	3.61	-2.32	2.06	.....	11	17	3	11	.....	H. K. Gilbert.
Gaffney	Cherokee	.....	4	.....	.....	.....	.....	.....	.....	.....	4.50	.....	1.38	.....	8	15	7	9	sw.	B. F. Camp.
Georgetown	Georgetown	12	7	82.0	+1.8	98	7	67	18	24	4.05	-4.19	3.20	.....	3	28	0	3	sw.	W. T. Turbeville.
Gillisonville	Hampton	.....	5	82.4	+1.3	103	7	65	17	32	3.75	.....	0.96	.....	11	2	22	7	e.	Sam P. Saltus.
Greenville	Greenville	1,000	8	77.5	+1.3	93	8	60	*10	26	2.23	-4.70	0.95	.....	8	20	5	6	.....	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	12	82.2	+2.4	101	*22	62	10	33	1.05	-4.77	0.55	.....	4	22	2	7	e.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	8	71.6	-0.3	85	6	54	10	25	9.43	+1.75	1.38	.....	20	9	15	7	se.	B. C. Hawkins.
Holland	Anderson	.....	12	77.5	-0.6	94	*6	56	10	31	3.35	-2.49	0.70	.....	11	8	19	4	.....	Dr. J. W. Earle.
Kingstree (1)	Williamsburg	77	12	80.4	-0.2	96	22	68	*14	25	6.77	+0.27	1.64	.....	12	13	10	8	sw.	C. J. Lesesne.
Kingstree (2)	.....	77	6	.....	.....	.....	.....	.....	.....	.....	6.35	-0.33	1.63	.....	12	15	7	9	sw.	W. H. Matthews.
Liberty	Pickens	.....	6	80.0	+1.8	98	7	60	10	27	5.90	.....	1.70	.....	6	19	7	5	sw.	Jno. T. Boggs.
Little Mountain	Newberry	711	7	82.5	+2.3	101	*7	66	10	30	2.71	-4.26	0.78	.....	12	11	14	6	sw.	John M. Sease, M. D.
Loughshore	Newberry	530	7	82.0	+2.8	101	*6	65	*10	31	4.12	-2.71	1.92	.....	10	4	19	8	sw.	W. G. Peterson.
Pinopolis	Berkeley	.....	7	79.7	+0.9	95	7	71	*14	.....	3.75	-2.94	1.43	.....	7	9	15	7	se.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	14	80.9	+3.0	100	20	62	10	32	5.53	-1.02	2.29	.....	10	16	11	4	sw.	Weather Bureau.
St. Georges	Dorchester	109	12	82.4	+2.0	98	*6	67	25	25	4.24	-2.47	1.15	.....	11	17	6	8	.....	W. B. Raysor.
St. Matthews	Orangeburg	254	12	82.2	+2.0	98	*6	69	10	26	11.29	+4.25	4.60	.....	10	14	9	8	.....	J. S. Wannamaker.
St. Stephens	Berkeley	73	8	.....	.....	.....	.....	.....	.....	.....	4.72	-2.22	1.45	.....	12	14	8	9	sw.	C. T. Shuler.
Santuc	Union	512	7	80.4	.....	99	22	59	10	31	4.33	-1.16	1.70	.....	9	9	18	4	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	31	82.0	0	99	7	70	29	22	2.02	-3.76	0.62	.....	11	13	15	3	sw.	Weather Bureau.
Shaws Fork	Aiken	500	7	.....	.....	.....	.....	.....	.....	.....	3.48	-1.43	1.05	.....	9	13	15	3	sw.	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	5	.....	.....	.....	.....	.....	.....	.....	7.53	.....	2.10	.....	11	15	6	10	s.	H. van Keuren.
Society Hill	Darlington	192	9	82.1	+3.6	98	7	69	*9	23	2.15	-5.00	0.97	.....	5	9	21	1	sw.	J. J. Lucas.
Spartanburg	Spartanburg	875	9	79.8	+0.7	97	*7	58	10	30	2.03	-2.50	1.34	.....	6	14	9	8	.....	F. P. Robinson.
Statesburg	Sumter	500	20	82.4	+3.7	101	22	69	*10	27	2.87	-2.65	1.00	.....	12	14	10	7	sw.	W. W. Anderson, M. D.
Summerville	Dorchester	.....	3	79.8	.....	94	7	69	*13	23	4.88	.....	2.20	.....	16	19	11	1	sw.	Prof. Jno. Gadsden.
Temperance (a)	Marion	100	2	82.3	.....	102	*7	61	11	33	2.80	.....	0.60	.....	8	10	20	0	sw.	J. R. Reeves.
Trenton	Edgefield	620	7	81.6	+0.9	95	7	69	13	21	4.08	-3.97	1.55	.....	11	4	25	2	s.	C. A. Long.
Trial	Berkeley	.....	14	78.6	+0.1	96	*6	65	14	24	5.75	-1.42	1.55	.....	12	1	23	7	sw.	Etsell Gaillard.
Walhalla	Oconee	1,061	10	77.0	+0.5	93	*7	55	9	29	1.67	-4.95	0.46	.....	6	12	17	2	se.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	31	81.0	+1.0	98	22	70	1	23	1.08	-5.83	0.36	.....	8	13	12	6	sw.	Weather Bureau.
Winnaboro	Fairfield	545	11	78.0	-1.1	94	*7	65	10	18	6.18	+0.31	2.50	.....	6	26	5	0	sw.	John W. Seigler.
Winthrop College (c)	York	690	1	81.0	.....	100	21	69	10	31	3.28	.....	0.78	.....	10	15	14	2	se.	Prof. Cleve'nd Abbe, jr.
Yemassee	Beaufort	23	5	84.2	.....	100	*19	70	*17	28	4.61	.....	1.38	.....	7	16	9	6	.....	R. G. Smith.
Yorkville	York	680	12	82.2	+3.3	100	7	63	10	27	2.34	-3.83	0.68	.....	9	11	12	8	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				81.2	+1.7	104	22	55	9	34	4.08	-2.29	4.60	.....	9	14	11	6	sw.	.....

a, b, c, etc., indicate number of days missing, with values as follows: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., 2 and 9 p. m. observations.



### STATIONS.

[illegible]

0, 1, 2, 3, 4 represents 100 to 104, respectively.



TOTAL PRECIPITATION FOR JULY, 1900.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JULY, 1900.

STATIONS.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Allendale													2.00									.32			.05		.07	.03	2.00	.50		4.97		
Augusta, Ga.		†	†	†								.24	.17					.15	†			.01			.03		1.07	.26	.04	.86	.01	2.82		
Batesburg		†	.20									.12	.01			†					†			.80		.34	.30		.33	†	2.28			
Beaufort	2.12	†	.03					†	.01	1.16		.60	.01				.01				.01			.04		1.50	.32	.28	.27	†	6.45			
Blackville												2.56	.37	.01		.08		.45			.01				.32	.21	.04		1.64	.57	.37	6.65		
Calhoun Falls								.11					.12									.08			.90		.24		1.68		3.15			
Camden		.01	.02	†			.01						.73	.01				†	†				†	.02	.02	†	.405	.16	1.11	.18	.10	6.42		
Charleston		†	†						.32		†	†	.08					.02								.02	.72	.06	.37		1.56			
Charlotte, N. C.		.45						†					.43								.45	.33	.38	.11	.10	.62		1.44	†	.22	.32	3.55		
Cheraw(1)	.79		.12				.33	.08					.27							.05	.21		.24	1.45							.55	4.74		
Cheraw(2)	.91		.27				.27	.03					.51							.72	†	†	.27	1.41					†		.35	5.04		
Clemson College			.19					.06				.51	.63			.05									†	.45	.22		†	.23		2.55		
Columbia			.25	.37							.61	.31	.08					.22	.42	.12	†	†	.08	.42		.62	.41	.17	.25	.02	†	4.35		
Conway	.55														.37					.30									1.65	.33	.23	.63	4.05	
Darlington, near						.71					.12	.17	†						†				.55	.17		.32	.16	.02	.03			2.25		
Edisto		.82	.20				.35	.02					.54							.15				.10	.90					.75		3.85		
Effingham	.80		.12			†		.10					.43	.07		.10				†				†	.76	†		†	†	.55	1.40	†	4.35	
Fairbluff, N. C.	.30						.22	.18					.82	.08						.28					.49		.09	.08	.68	.74	.08	4.04		
Florence						.15					.01	.19	.15									.73	.11	.13		.05	1.89	.17				3.61		
Gaffney			.04						.70				1.32					.05					.11	†	.20					1.38		4.56		
Georgetown												†																				4.05		
Gillisonville		†	†				†	†				.96	.65				.20	.14	†	†				.01		.36	.37	.38	.53	.10	.05	3.75		
Greenville	.08		.05						.10				.95												.55						.20	.10	2.25	
Greenwood																								.10			.55	.15		.25		1.05		
Horse Cove, N. C.	.62	.02					.49			†	.82	1.38	.49	.20	.85	†		.07	.01	.15	.09	.10	.85	.62	.25	.12	.62	.63		.05	9.45			
Holland												.25									.25	.30	.53	.40	.65	.70	.10	.03	.08	.06		3.35		
Kingstree(1)	1.04											.06	.68	.45				.03		.15												6.75		
Kingstree(2)	1.06											.04	.75	.44				.02		.15												6.35		
Liberty		.50										†	1.70	†	†		†				.17											5.90		
Little Mountain		.70	.02									.10	.12							†				.50	.04	.03	†	.58	.20	.09	.27	.06	2.75	
Longshore		1.92	.02					.07				.06	.05		†								.40				1.01	.27		.30	.02	4.15		
Pinopolis	.04											.56						.09							.33		.50	1.43	.80			3.75		
Raleigh, N. C.	.03		†				†				.25	.08											.92	.31	.56	.02	.92	.29			.15	5.55		
St. Georges	.66	.10									.48	.20									.80				.72	.43		.10	.15	.10		.50	4.25	
St. Matthews	.98	.06									.53	.11									.54						3.65	.48		.15	4.60	.19	11.25	
St. Stephens		.07										1.43	1.45	.05												.15		.12	.02	.30	.68	.45	4.75	
Santuc		.07	.08						1.70									.12					.06	.05		.04	1.10			1.11		†	4.35	
Savannah, Ga.	.26	.02	.43					.08	†			.33	†	.03	.06			†			†						.09	.06	.62	†		2.35		
Shaws Fork	.45										.35	.20												.15	.95	†		.21	.26	.85	.06	3.45		
Smiths Mills	1.35									.35		.05	.60	.05													.12		.86	.30	.75	2.10	1.00	7.55
Society Hill												.11								.44			.12	.51			.97					2.15		
Spartanburg			†										1.06	.28												.02		.02	.17	†		.48		2.05
Statesburg		.04	.07									.17	.18							†					.99	.01	.03	.26	.65	.38	.07	.02	2.85	
Summerville	.08	.18	.24				.09		.01		.01	.68	.02		.18			.04	.19							.11			.40	2.20	.41	.04	4.85	
Temperance	.47					.47	.14					.16											.02		†	†			.60	.58	.38		2.85	
Trenton	.62	.33										.17	.25			1.55		.08								†		†				4.05		
Trial	.20									.91	1.52	.10					.11	†	.22				.25		.42			.27	.70	.59	.46	5.75		
Walhalla								.10				†	.20	.38			†		†							†	†		†	.27	†	1.65		
Wilmington, N. C.	†					.01	†					.08	.16								.03							.36	.12	.20	.12	1.05		
Winnsboro	.85						.09					1.28															1.30	†	.16	2.50			6.15	
Winthrop College		.44						.11					.08										.16	.42			.48	.06	.39	.36	.78		3.25	
Yemassee	1.20	.53										1.38																	1.11	.15	.13	.11	4.65	
Yorkville		†					.45				.21	.39													.09		†	.68	.04	.02	.24	.22	2.35	

\* Precipitation included in that of the following day.

† indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR AUGUST, 1900.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF  
WILLIS L. MOORE,  
CHIEF OF WEATHER BUREAU.

BY

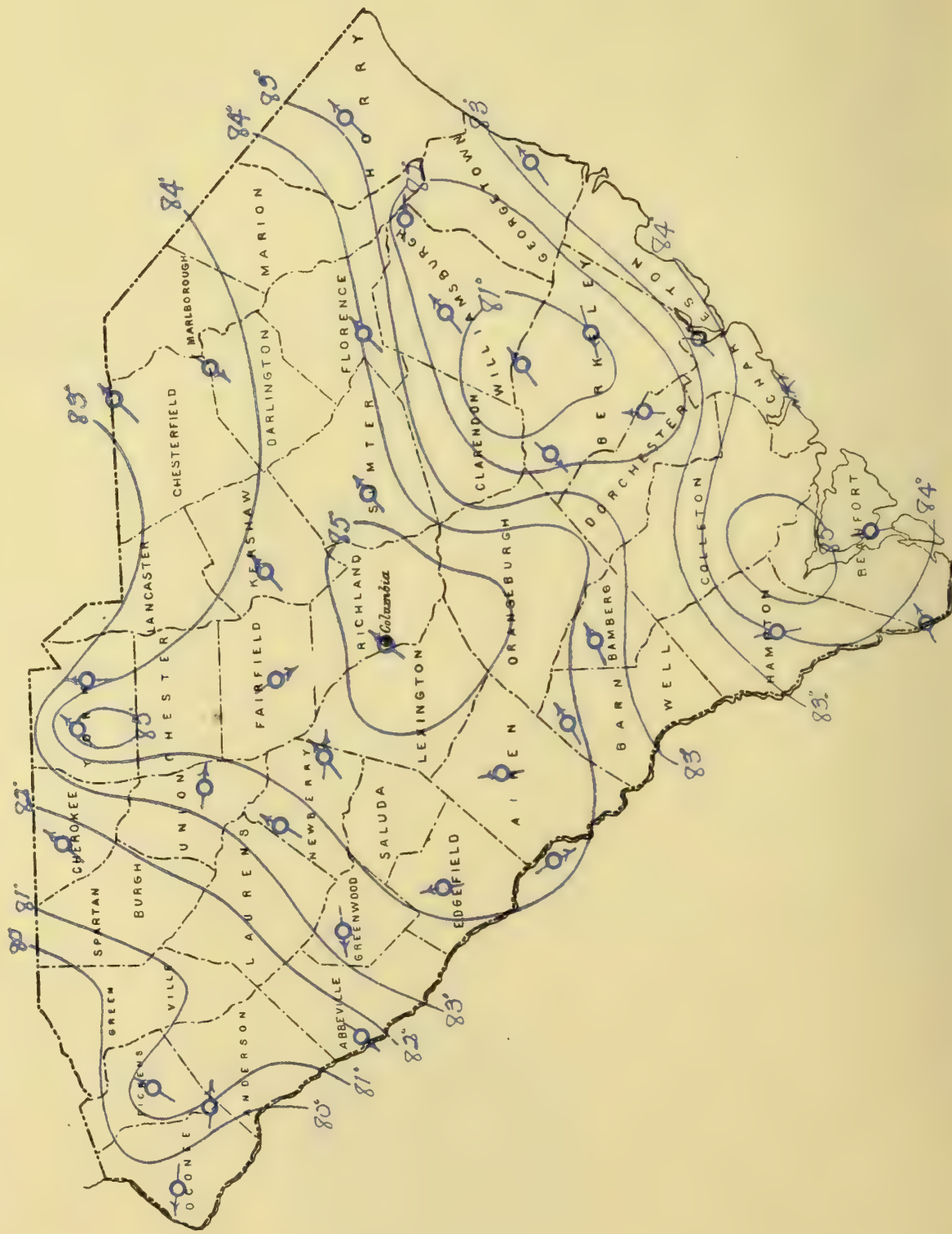
J. W. BAUER,  
SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR AUGUST, 1900.  
 (Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATE AND CROP SERVICE**  
 OF THE  
**WEATHER BUREAU.**  
 CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.  
 J. W. BAUER, Section Director,  
 COLUMBIA, S. C.

VOL. III. COLUMBIA, S. C., AUGUST, 1900. No. 8.

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for the month of August, 1900, was  $83.0^{\circ}$ , which is  $4.4^{\circ}$  above the normal. The highest local mean was  $85.3^{\circ}$  at Yemassee, and the lowest local mean was  $79.4^{\circ}$  at Holland. The highest temperature for the month was  $106^{\circ}$  at Columbia on the 20th, and at Longshore on the 21st; the lowest temperature was  $60^{\circ}$  at Holland on the 25th, making the State range  $46^{\circ}$ . The greatest local monthly range was  $44^{\circ}$  at Gillisonville, and the least local monthly range was  $27^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $94.8^{\circ}$ , and of the daily minimum temperatures was  $71.3^{\circ}$ .

Precipitation, in Inches.

The average precipitation for August, 1900, was 2.13 inches, which is 4.18 inches below the normal. The greatest local monthly amount was 5.55 inches at Yemassee, and the least local monthly amount was 0.27 of an inch at Cheraw (2). The greatest 24-hourly fall was 3.30 inches at Saint Stephens on the 30th. The average number of days with rain, for 51 stations, was 5, ranging from 1 at Allendale to 10 at Sumterville.

Hail.—Pinopolis, 21st; Society Hill, 15th. Hail also was noted during the month in Beaufort, Dorchester, Edgefield, Lancaster, Newberry, Pickens, and Sumter counties.

Heavy Rains.—Beaufort, 30th, 2.20 in 8 hours; Blackville, 30th, 0.34 in 14 minutes; Saint Stephens, 30th, 3.30 in one hour.

Weather.—The average number of clear days was 21, of partly cloudy days was 9, and of cloudy days was 1.

Winds.—The prevailing direction of the wind was from the northwest at 23 stations; from the south at 7 stations; from

the west at 4 stations; from the east and northeast at 3 stations each; from the northwest at 2 stations.

High Winds.—Beaufort, 24th; Charleston, 19th; Gillisonville, 5th; Walhalla, 23d.

CLIMATE AND CROPS.

The month of August was noteworthy in respect both to temperature and precipitation, having been the hottest August of record as well as the driest. From the limited data available for comparison it appears also to have had more bright sunshine and less cloudiness than any preceding August of record. The mornings, evenings and nights were generally clear, while during the hottest portion of the daytime there was considerable cloudiness, culminating frequently in thunderstorms with, however, but little rainfall.

The extreme heat was due more to high maximum temperatures than to warm nights, as the latter were favorable to radiation of heat. The daily maximum temperatures averaged  $3.1^{\circ}$  higher than ever before recorded, while the night temperatures averaged only  $0.1^{\circ}$  higher. The heat, and the wide daily range of temperature, were too great for many forms of vegetation, and for the normal development of the crops cultivated in this State. Whether the crops would have suffered the serious impairment which they did, had the ground been copiously supplied with moisture is purely a speculative question incapable of definite answer, but the small amount of rainfall (34 per cent of the normal amount for the State, with localities having less than 10 per cent) would have of itself been an adverse condition.

The combination of excessive heat and severe drought caused all crops to deteriorate rapidly, especially so during the second week, when growth came to a standstill and much vegetation withered and died.

Cotton and corn suffered severely and what at the beginning of the month appeared to be very promising crops of these two staples, failed so rapidly during the month that both were very poor at the close.

Cotton shed leaves, forms, and bolls and rust developed quite extensively. The heat caused much premature opening of small bolls and none of the bolls attained their normal size.

Early corn came to maturity with the grain somewhat shrunk, while late corn in many instances failed to ear, and later its leaves and tassels died.

Of the many minor crops rice and sorghum withstood the drought best, while peas and sweet potatoes suffered most. Pastures and gardens were burnt by the hot sun and ruined. The damage was very great in the coast truck region, principally because there the rainfall deficiency was greatest.

The money value of the damage to all crops in South Carolina would, in the aggregate, reach appalling figures, and while nothing like a famine will result, nevertheless there will be less food and forage, home raised, than for many years.



## MISCELLANEOUS PHENOMENA (with dates).

Parhelion.—Liberty, 27; Santuc, 23.

Halos, Lunar.—Charleston, 12; Statesburg, 17.

Fogs, Dense.—Blackville, 3; Cheraw (2), Society Hill, 31; Gillisonville, 11, 12; Liberty, 5, 30; Statesburg, 10, 12.

Thunderstorms.—Beaufort, 1, 2, 3, 4, 14, 15, 18, 19, 24, 30, 31; Blackville, 10, 14, 18, 25, 29, 30, 31; Charleston, 1, 3, 4, 8, 14, 17, 18, 21, 22, 23, 24, 25, 26, 29, 30, 31; Cheraw (2), 12, 13, 15, 17, 20, 21, 22, 23, 25, 29; Columbia, 12, 16, 17, 20, 22, 23, 25, 29, 31; Gillisonville, 1, 3, 4, 14, 19, 21, 22, 24, 25, 27, 30, 31; Liberty, 3, 12, 23, 28, 29, 30, 31; Little Mountain, 11, 12, 17, 23, 24, 25, 29, 30; Longshore, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 29, 30, 31; Santuc, 11, 12, 17, 20, 23, 24, 25, 26, 29; Shaws Fork, 15, 17, 22, 25; Statesburg, 12, 15, 16, 17, 20, 21, 22, 23, 25, 26, 29, 30; Trial, 10, 14, 17, 21, 23, 25, 29, 31; Walhalla, 23; Winthrop College, 3, 17, 20, 24, 29, 30; Yorkville, 11, 12, 14, 17, 20, 22, 23, 24, 28, 29, 31.

## REMARKS BY OBSERVERS.

Darlington.—In an experience of over 30 years I have never known so many consecutive hot days as we have had this month, and which have been damaging to crops of all kinds.—E. R. McIver.

Greenwood.—In consequence of the extreme heat and the drought there remains nothing on cotton stalks, at the end of August, except full-grown bolls. The rains came too late to benefit cotton.—M. M. Calhoun.

Society Hill.—Maximum temperatures for this month exceed all previous records at this station. The heat has been disastrous to cotton, corn, and all field crops. Hail on the 15th did little or no damage.—Maj. J. J. Lucas.

Longshore.—There was a remarkable spell of heat from the 8th to the 23d, during which all former records for this station were broken. All crops were parched, and Newberry can not make over half a normal yield of cotton.—W. G. Peterson.

Summerville.—Slight earthquake tremor on the 10th at 7.50 p. m. From the 8th to 29th (inclusive) the maximum temperatures were 90°, or above, except on the 15th when it was 89°. So little rain fell during this time that crops of all kinds suffered.—Prof. John Gadsden.

Holland.—After the most destructive drought ever known, with a duration of only 19 days at this point, rains began during the last week of August, in spots. The estimated damage to crops is that they were cut down to one-half their normal yield.—Dr. J. W. Earle.

Trenton.—Precipitation 5.26 inches less than the 8-year average for August, and 6.18 inches less than the average for

the first 8 months of the year. The dry and hot month caused much damage to cotton. Peas and sweet potatoes will not make more than half crops. Old corn is an average crop.—C. A. Long.

Liberty.—There has been comparatively little rain, and it came in the form of partial showers. Old cotton that was well worked is well fruited, and late cotton—the bulk of the crop—is still growing and blooming, and with favorable seasons will make a good crop. Corn is an extremely poor crop.—Jno. T. Boggs.

Gillisonville.—Month was extremely hot and dry. Planters agree that the weather conditions were the most severe of any in their experience. Most of the cotton plants were killed during the second week. Late corn could not mature. The showers during the closing week revived sugar cane, peas, and potatoes.—Sam P. Saltus.

Beaufort.—The month was very hot and dry. Cotton and all other growing crops suffered severely in consequence. Fall gardens delayed in planting. Mean temperature 2.9° above normal, and precipitation 3.40 inches below normal. Electric storm on the 30th, during which three houses were struck by lightning, and one person killed by lightning.—S. M. Benton.

Santuc.—The weather was intensely hot for 13 days, during which time the maximum temperature ranged from 100° to 105°. Crops were badly burned. During the hottest weather clouds would form late in the afternoon, giving out heavy thunder, and then the clouds would disappear without a sprinkle of rain. The winds were heated, and were not refreshing. Stock water failed in places.—E. W. Jeter.

## HOTTEST AND DRIEST AUGUST.

The past August was the hottest and driest month of record for which reliable data are available. The previous August mean temperatures for the State are shown herewith in tabular form, and to indicate particularly that the increased heat was due more to high maximum temperatures than to high minimum readings, columns are added showing the mean of the daily maximum and daily minimum temperatures since 1893. Also one showing the average total rainfall. The table demonstrates at a glance the truth of the opening sentence, and affords a means of comparison with previous years. The normal August mean temperature is 78.6°, and the normal precipitation is 6.31 inches.

Year.	Mean maximum.	Mean minimum.	Monthly mean.	Departure.	Total precipitation.	Departure.
1893.....	91.7	67.3	77.8	-0.8	12.84	+6.53
1894.....	87.2	69.7	77.9	-0.7	7.28	+0.97
1895.....	88.1	71.1	78.4	+0.8	7.95	+1.64
1896.....	90.2	70.9	80.4	+1.8	4.14	-2.17
1897.....	87.5	68.9	78.0	-0.6	5.16	-1.15
1898.....	86.7	70.7	78.7	+0.1	9.81	+3.50
1899.....	91.1	71.2	81.2	+2.6	6.26	-0.05
1900.....	94.8	71.3	83.0	+4.4	2.13	-4.18



## CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST, 1900.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observer.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Allendale	Barnwell	186	12	82.6	+3.1	97	*22	62	8	27	0.28	-7.21	0.28	1	27	3	1		G. M. Boland.	
Augusta, Ga.	Richmond	134	20	81.0	+4.0	102	20	60	25	26	4.42	-0.95	3.05	8	22	6	3	nw.	Weather Bureau.	
Batesburg	Lexington	656	12	84.3	+5.7	105	*21	65	6	35	0.84	-5.18	0.41	4	29	2	0		E. J. Hite.	
Beaufort	Beaufort	28	14	84.2	+2.9	102	21	69	*6	24	3.35	-3.40	2.20	4	21	9	1	s.	S. M. Benton.	
Blackville	Barnwell	293	12	84.2	+4.5	104	20	65	6	32	2.21	-4.13	0.60	6	19	12	0	rw.	G. D. C. Lange.	
Calhoun Falls	Abbeville	354	7								0.86	-4.75	0.29	3	28	0	3	ne.	P. J. Pfeiffer.	
Canden	Kershaw	222	34								2.31	-2.67	0.80	8	22	9	0	sw.	B. Ammons.	
Charleston	Charleston	48	31	84.2	+3.0	99	21	72	31	21	0.40	-7.03	0.30	4	14	19	0	sw.	Weather Bureau.	
Charlotte, N. C.	Mecklenburg	808	22	81.9	+5.0	99	10	67	7	29	3.05	-2.06	1.45	6	20	8	3	sw.	Weather Bureau.	
Cheraw (1)	Chesterfield	114	12	83.6	+5.2	103	*9	64	6	35	0.63	-6.06	0.45	2	22	7	2	sw.	W. R. Godfrey.	
Cheraw (2)		108	7								0.27	-6.06	0.23	3	21	9	1	sw.	Jno. H. Powe.	
Clemson College.	Oconee	850	9	81.7		102	*8	64	2	36	3.43	-0.80	1.45	6	12	17	2	w.	Prof. C. C. Newman.	
Columbia	Richland	336	13	85.1	+6.5	106	20	67	6	30	0.61	-6.24	0.36	7	17	13	1	sw.	Central Office.	
Conway	Horry	49	9			106	20				3.13	-3.51	1.70	2	22	5	4	sw.	P. Quattlebaum.	
Darlington	Darlington	175	5								2.53	-0.93		5	19	12	0		E. R. McIver.	
Edisto	Bamberg	143	7								0.56	-5.90	0.35	3	22	8	1	sw.	Miss Jerry Carter.	
Elkham	Florence	106	8								1.48	-4.45	1.11	5	22	7	2	sw.	A. J. Howard.	
Fairbluff, N. C.	Columbus	73	6								2.98	-1.70		5	24	7	0	sw.	I. M. Powell.	
Florence	Florence	156	12	84.3	+4.2	100	*9	67	6	27	2.17	-3.80	1.37	5	24	4	3		H. K. Gilbert.	
Georgetown	Cherokee		4								1.75	-1.30		6	21	7	3	sw.	B. F. Camp.	
Georgetown	Georgetown	12	7	83.1	+3.0	99	*8	67	*5	26	3.05	-2.91	2.00	3	27	1	3	sw.	W. T. Turbeville.	
Hillsonville	Hampton		5	84.5	+3.5	105	*18	61	*6	35	2.69	-7.29	1.13	7	21	8	3	sw.	Sam P. Salts.	
Irvingville	Greenville	1,000	8	80.3	+4.3	97	*9	62	3	30	1.39	-3.59	0.38	6	26	4	1	s.	Mrs. S. A. Crittenden.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	12	18	10	5	e.	M. M. Calhoun.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	4	23	3	5	ne.	B. C. Hawkins.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	4	12	19	0		Dr. C. J. W. Earle.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	5	22	9	0	sw.	C. J. Lesene.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	5	23	8	0	sw.	W. H. Matthews.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	4	20	11	0	sw.	Jno. T. Boggs.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	9	17	14	0	w.	John M. Sease, M. D.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	5	14	12	5	s.	W. G. Peterson.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	6	25	0	6	e.	E. P. Ravenel.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	6	25	5	1	sw.	Weather Bureau.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	3	25	6	0		W. B. Raynor.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	2	23	7	1		J. S. Wannamaker.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	4	13	5	3	sw.	C. T. Shuler.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	6	14	17	0	w.	E. W. Jeter.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	8	21	10	0	sw.	Weather Bureau.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	5	18	13	0	s.	Geo. H. Atwood.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	4	23	5	3	w.	H. van Keuren.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	7	16	0	0	ne.	J. J. Lucas.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	7	18	8	5		F. J. Robinson.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	5	23	6	2	sw.	W. W. Anderson, M. D.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	10	23	8	0	s.	Prof. Jno. Gadsden.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	2					J. R. Reeves.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	4	11	16	0	s.	C. A. Long.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	5	11	18	2	ne.	Etsell Gaillard.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	4	22	8	1	e.	S. M. Pagan.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	6	18	11	2	sw.	Weather Bureau.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	5	25	6	0	nw.	John W. Seigler.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	6	20	11	0	s.	Prof. Cleve and Abbe, jr.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	4	24	6	1		R. G. Smith.	
Irvingville	Greenville	671	12	83.2	+4.6	104	11	67	*6	30	1.17	-3.43	0.50	6	18	12	1	sw.	J. R. Schorb.	
MEANS—highest, lowest and dates, etc.				83.0	+4.4	106	*8	60	25		2.13	-4.18	3.30	5	21	9	1	sw.		



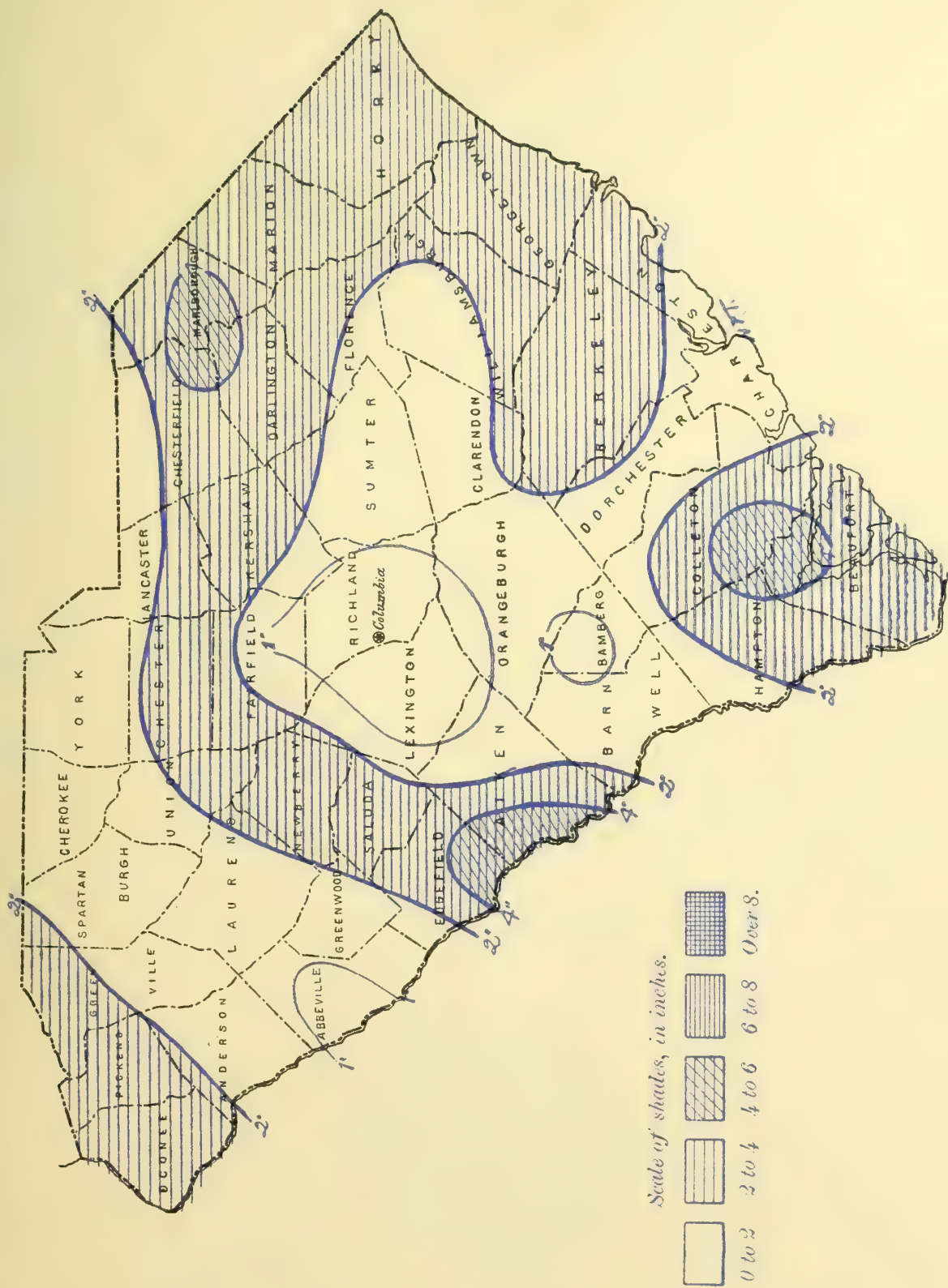
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING AUGUST, 1900

[illegible]

Parameters from  $\beta$ ,  $\mu$  and  $\gamma$  M observations, 0, 1, 2, 3, 4, 5,  $\hat{\sigma}$ , represents 100 to 106, respectively.



TOTAL PRECIPITATION FOR AUGUST, 1900.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1900.

STATIONS.	Day of Month.																															Total			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Allendale																	.02	†						.17	3.05	.08	.54				.28		0.4		
Augusta, Ga.	.04															†		†						.41	.33	.01	.05				.50		.02		
Batesburg	.05														1.07			†	.07								.01			2.20	†	3.0			
Beaufort																										.23						2.0			
Blackville	.34									.40				†														.23		.07	.57	.60		3.0	
Calhoun Falls	.35																.22												.29				2.0		
Camden	†					.10							†			†		.01				.22	.09	.62				.80			.41	.06	2.0		
Charleston	.30		.05	†								†					.02	†			†	†		.07	1.45						.48	.49		3.0	
Charlotte, N. C.																	.27														.18		0.0		
Cheraw(1)																	.45																3.0		
Cheraw(2)													†				†		.03				.01	†							.23		0.0		
Clemson College												.21											.05				.50		†	.21	1.01	1.45		3.0	
Columbia																		†	.04		.02					†					.10	.36	0.0		
Conway											†						.07						†	1.70	†						.43		2.0		
Darlington, near																						.21	.93								.82	.50	2.0		
Edisto																		.06													.35		0.0		
Effingham																	.16						.02		.04							1.11	.15	1.0	
Fairbluff, N. C.																	1.70	.18					.36	.50	†						.24		2.0		
Florence																	1.37						.06	.03	.09	†							.62	1.0	
Gaffney	.03												.08	.03	.06									1.30	†					.25			2.0		
Georgetown																																	3.0		
Gillisonville				.25											.37					.25			†		.17	.32		†	†		†	1.13	.20	2.0	
Greenville												.30	†				.18	.38					.20							.13	.20	†	1.0		
Greenwood																	.10								.35		.22				.50		2.0		
Horse Cove, N. C.													.10		†		.18	†					.55	.82	.03	.23		.24	.03	.11	.23	.33	3.0		
Holland																																.50	1.0		
Kingstree(1)		.16																	†				.35	.30							.20	.45	1.0		
Kingstree(2)																							.18	.10	.05						.20	1.33	1.0		
Liberty			†																†	†		†			.66	†	†		†	.56	.12		2.0		
Little Mountain												.02	.13					†	1.10					.15	.36		.10		†	1.00	.20	.37	3.0		
Longshore																	.02							.39							1.25	.03	.31	2.0	
Pinopolis																							.80		.91						.07	.39	.17	2.0	
Raleigh, N. C.															.15			1.11	†		.22	†		†	.69					†	1.58	.76	4.0		
St. Georges																	.50									.10		.25				.68	.64	1.0	
St. Matthews																																3.30		3.0	
St. Stephens				.15																		.10		.14	1.42	.07	†	.03	.03		.62			2.0	
Santuc																	.12	.06			†		.14	†		.50					†	.82		2.0	
Savannah, Ga.	.35		.01	†	.01												.13		.03	†	†			†	.85		.06							0.0	
Shaws Fork																							.12	.10									2.00	1.0	
Smiths Mills																																.62		2.0	
Society Hill																	2.60	.21					.24	.44	†			.26		.29	.31	†	2.0		
Spartanburg																		†			.70		.10	.02	†		.02	†			.85		†	2.0	
Statesburg	.03			†													.08		1.02	.01	.17			†		.38					.80	.02	.24	2.0	
Summerville	.56				.01																		1.40									1.86		2.0	
Temperance																																		2.0	
Trenton			.09																		.05					1.84	†					2.22		.40	4.0
Trial	†																								.88	†						1.05		4.0	
Walhalla																									.56	†								2.0	
Wilmington, N. C.	.78		.90																				.12	†	.04	†					.03	.03	†	†	1.0
Winnsboro																			.03					.03				.40			.15		.16	1.0	
Winthrop College			†																								†					.11	.07	†	2.0
Yemassee	.17																															.21		.03	2.0
Yorkville																	.20	.29																2.0	

\* Precipitation included in that of the following day.

† indicates trace, less than 0.01 inch.



617.05  
UNSC

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR SEPTEMBER, 1900.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

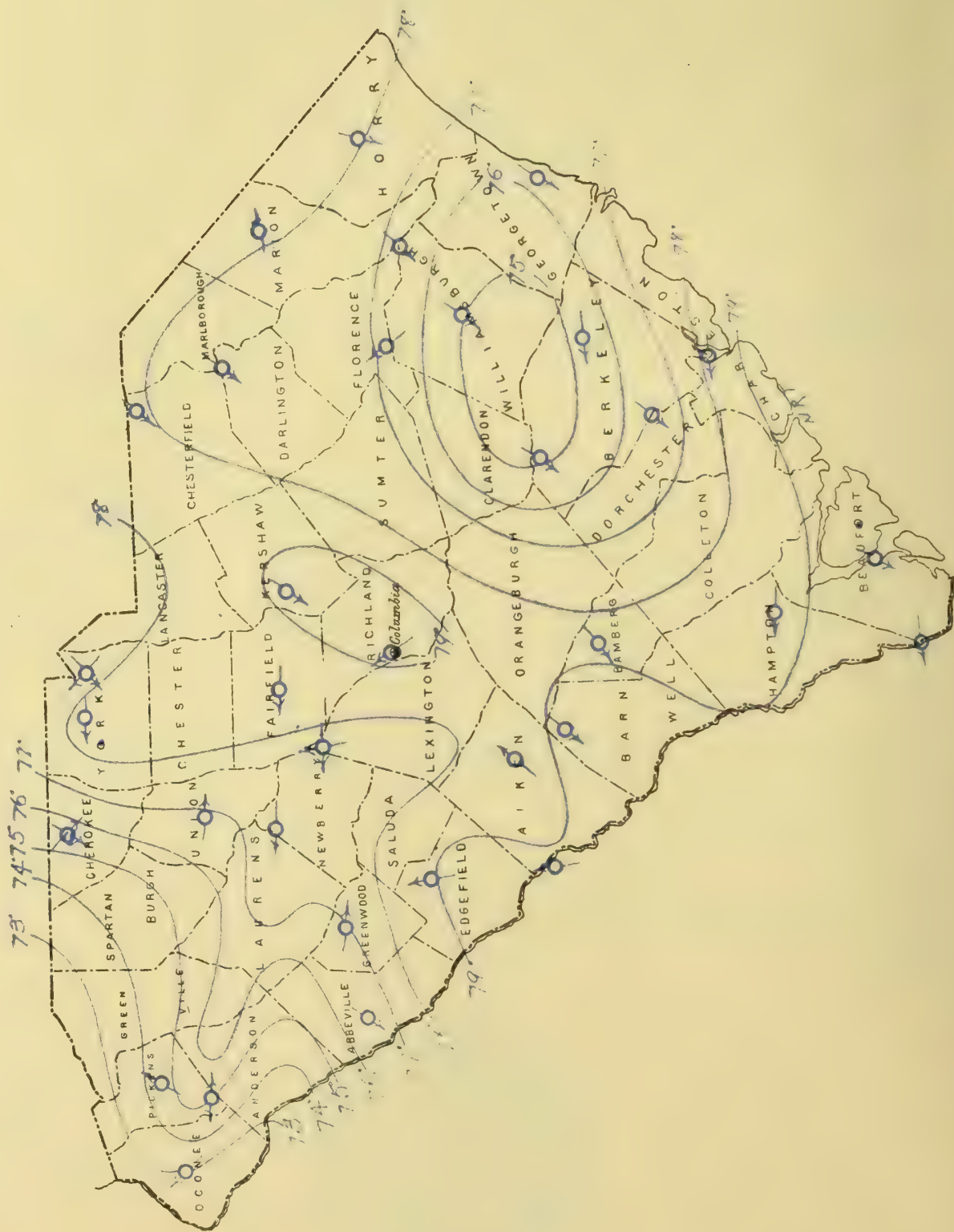


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR SEPTEMBER, 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

### SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

PL. III. COLUMBIA, S. C., SEPTEMBER, 1900. No. 9.

#### CLIMATOLOGY FOR THE MONTH.

##### Temperature, in Degrees Fahrenheit.

The mean temperature for September, 1900, was 77.1°, which is 2.9° above the normal. The highest local mean was 79.9° at Beaufort, and the lowest local mean was 73.0° at Holland. The highest temperature for the month was 90° at Cheraw (1), Columbia and Santuc on the 13th, at Temperance on the 14th, and at Yorkville on the 12th; the lowest temperature for the month was 45° at Holland and Walhalla on the 17th, making the State range 55°. The greatest local monthly range was 53° at Santuc, and the least local monthly range was 29° at Charleston. The mean of the daily maximum temperatures was 88.0°, and of the daily minimum temperatures was 66.2°.

##### Precipitation, in Inches.

The State average precipitation for September, 1900, was 3.33 inches, which is 1.30 below the normal. The greatest local amount was 6.15 inches at Trial, and the least local amount was 1.08 inches at Temperance. The greatest 24-hourly fall was 3.60 inches at Liberty on the 14th. The average number of days with rain, for 50 stations, was 5, ranging from 1 at Effingham and Winnsboro to 11 at Beaufort.

Excessive Rains: Allendale, 1st, 3.40 in 4 hours 30 minutes; Batesburg, 16th, 2.03 in 8 hours; Beaufort, 15th, 2.50 in 24 hours; Florence, 14-15th, 1.83 in 2 hours 5 minutes; Liberty, 14th, 3.60 in 24 hours; Little Mountain, 14-15th, 4.3 in 24 hours; Summerville, 15th, 3.04 in 24 hours; Trial, 14th, 3.31 in 15 hours 30 minutes; Walhalla, 13-14th, 3.00 in 24 hours.

Weather.—The average number of clear days was 19, of partly cloudy days 8, and of cloudy days 3.

Winds.—The prevailing direction of the wind was from the northeast at 19 stations; from the east at 9 stations; from the southeast, south and west at 4 stations each; from the south-

west at 2 stations, and from the northwest at 1 station.

High Winds.—Beaufort and Charleston 6th, Shaw's Fork, 13th.

#### WEATHER AND CROPS.

The opening weeks of September, 1900, gave a continuation of the abnormally hot and dry weather that had characterized August when, beginning on the 13th and continuing to the 15th, there were comparatively heavy rains over the entire State. The larger part of the month's precipitation fell during this period, although scattered light showers occurred early in the month and at its close.

There was a cool period on the 17th, 18th, and 19th during which the temperature was slightly below the normal, but with this exception the temperature ranged above normal during the entire month.

September had an unusually large number of clear days (19) which in connection with the prevailing high temperatures and absence of rain caused crops to ripen rapidly, prematurely in the case of much cotton and some corn. Gathering and harvesting made rapid progress, and the bulk of the cotton crop was picked during the month. Some fields were entirely finished, all having opened, while in others only scattering bolls remained unopened and unpicked. The lint was saved in fine condition, with a very small amount of stained cotton.

The weather conditions were unfavorable for the growth of vegetation up to the 15th, but after that date cotton began to take on a small top crop. The weather during August and the first two weeks of September reduced the yield of cotton materially, and in these six weeks of extreme heat and dryness amounting to severe drought in many places, this crop was changed from a promising to a very poor one.

The condition of corn did not improve during September, and late corn was a failure, while early and intermediate plantings were poor at maturity. Some corn was housed during this month.

Minor crops improved slightly after the middle of the month, but owing to the advanced stage of the season, their ultimate yields were but slightly bettered. The weather conditions were entirely favorable for the river rice crops which were largely harvested. Upland rice proved to be a failure. The rains started a rapid growth of grass for hay, and much was saved in fine condition.

The dry condition of the soil did not favor plowing and less than the usual amount of plowing and fall seeding was accomplished. The month as a whole was unfavorable on agricultural interests, except for harvesting.

#### SHORT CLIMATE AND CROP REVIEW.

The year of 1900 has been a noteworthy one in South Carolina, in the matters of rainfall and temperature, and their influence on crop production.

The temperature during February was unusually cold, but



after that month and up to August it differed but slightly from the normal for the same period. During August and the greater part of September it was continuously high, at times higher than ever before known, and too high for the normal development of field crops. In those months, the heat and dryness of the air, giving it an unusually large absorptive capacity, together with the scant rainfall, also increased the severity of the drought.

The average rainfall during April (5.41) was with one exception the heaviest on record for that month; during May it was slightly deficient, but owing to the amount of moisture in the ground, crops did not suffer from the deficiency; during June the rainfall was again very heavy (7.94), and averaged greater than ever before recorded for the month. Coming at the time when field crops are usually cultivated to promote their growth and to clear them of weeds, which work was greatly impeded, its effects on crops was unfavorable, but as the following July had only moderate rains, crops were again put into good, clean condition. August had the least rainfall on record for that month (2.13), and during the second week of August crops failed rapidly under the combined influence of the abnormally high temperature and lack of moisture, with subsequent weather conditions adverse to their recovery until the most of the crops had reached maturity.

The weather conditions were so abnormal during portions of the year that it is highly improbable that there will soon be a repetition as disastrous to agricultural interests. Those crops that reached maturity before August, such as the various cereals, most of the fruits, and tobacco, were fully up to, or above, their normal yields, while those that came to maturity subsequently, such as corn, cotton, peas, cane, and sweet potatoes (excepting river rice which was a large crop), were very poor.

#### ERRATUM.

August report, on page 8, for Spartanburg, the amount of precipitation on the 1st, blank, should be .04.

#### MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Gillisonville, 6, 15.

Lunar Halos.—Charleston, 12, 13; Gillisonville, 30.

Dense Fogs.—Blackville, 8, 9, 10, 11, 22, 29, 30; Camden, 10, 11; Cheraw (2), 8, 9; Gillisonville, 22, 23, 27, 29, 30; Liberty, 16; Little Mountain, 7, 8, 16; St. Stephens, 9, 10; Society Hill, 8, 9, 10, 11, 16.

Thunderstorms.—Beaufort, 1, 2, 4, 13, 14, 15, 28, 30; Blackville, Columbia, 1, 15; Charleston, 1, 13, 15, 30; Cheraw (2), 13, 16; Gillisonville, 1, 2, 5, 13, 14, 15, 30; Liberty, 13, 14, 15; Longshore, Walhalla, 1; Santuc, 13, 15; Shaws Fork, 1, 2, 30; Trial, 2, 13, 14, 15, 28, 30; Winthrop College, 13, 15, 30; Yorkville, 30.

#### REMARKS BY OBSERVERS.

Little Mountain.—The 14th of September was the first cloudy day since the 30th of July; at the end of the month nearly all cotton was open and picked.—Jno. M. Sease, M. D.

Longshore.—September was a fair, hot month; at its close cotton was nearly all gathered, with less than half an average crop made; corn proved to be very poor.—W. G. Peterson.

Trenton.—Precipitation 1.16 less than the 8-year average for September, and 7.08 inches less than the 7-year average for the first nine months of the year. Cotton all open and nearly all picked.—C. A. Long.

Batesburg.—Had very nice rains during the first portion of the month, but it became dry the latter part; peas and sweet potatoes improved; turnips were sown but some failed to come up; at the close of the month cotton was about all picked.—E. J. Hite.

Summerville.—Slight earthquake tremor on 4th, at 6.05 a. m.; another on 24th, at 2.36 p. m. Although it was very dry at times, the rains about the middle of the month prevented a drought at this point; the relative humidity was lower than during the previous month, and averaged 80 per cent.—Prof. John Gadsden.

Santuc.—A greater portion of the month was very hot, and dry; it was unfavorable for vegetation; turnips were killed to some extent; on the 13th the temperature reached 100° by 12.30 p. m., when the sky clouded, and the winds blew hard; streams ran very low, and some creeks dried up.—E. W. Jeter.

Liberty.—Another comparatively dry month; while cotton promised a good top crop at last report, it has since failed rapidly, shedding its fruit and wilting badly up to the 14th, after which it again improved considerably; late cotton is better than early; oats and rye were sown; fine hay crop saved.—Jno. T. Boggs.

Holland.—There was one rain in September, but it did not penetrate the soil to meet the ground water; ground dry again in three days, and it did not start growth of vegetation. It is my estimate that Anderson county will make three-fourths of a full crop of cotton, while others estimate it at a half or less.—Dr. J. W. Earle.

Beaufort.—The weather during September was fine for picking cotton, harvesting corn and hay, with unusually heavy crops of pea-vine and crab-grass hay made; sea-island cotton opened slowly; crop is very light. The mean temperature was 3° above the normal, and the precipitation was 2.34 inches below the normal.—S. M. Benton.



CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1900.																				
STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Allendale	Barnwell	186	12	79.4	+4.5	90	*1	54	19	32	3.94	-0.84	3.40	.....	4	25	0	5	.....	G. M. Boland.
Angusta, Ga.	Richmond	134	20	79.0	+4.0	95	12	55	18	29	2.32	-1.40	1.79	.....	5	22	5	3	s.	Weather Bureau.
Batesburg	Lexington	656	12	77.8	+4.0	98	14	54	19	36	4.71	+0.60	2.03	.....	4	26	2	2	.....	E. J. Hite.
Beaufort	Beaufort	28	14	79.9	+3.0	98	28	61	19	24	3.77	-2.34	2.50	.....	11	18	9	3	ne.	S. M. Benton.
Blackville	Barnwell	293	12	79.2	+4.3	98	28	52	19	38	3.19	-1.14	1.79	.....	6	18	10	2	ne.	G. D. C. Lange.
Calhoun Falls	Abbeville	354	7	.....	.....	.....	.....	.....	.....	.....	3.55	-0.53	2.45	.....	4	25	0	5	ne.	P. J. Pfeiffer.
Canden	Kershaw	222	34	.....	.....	.....	.....	.....	.....	.....	1.65	-2.19	0.78	.....	5	17	4	9	ne.	B. Ammons.
Charleston	Charleston	48	31	79.6	+4.0	93	17	64	18	21	2.34	-3.51	0.95	.....	8	14	14	2	e.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	22	76.3	+6.0	95	10	52	18	27	0.73	-2.34	0.52	.....	5	23	4	3	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	114	12	78.0	+4.8	100	13	52	19	37	1.55	-2.08	1.10	.....	2	16	7	7	ne.	W. R. Godfrey.
Cheraw (2)	.....	108	7	.....	.....	.....	.....	.....	.....	.....	1.37	-2.81	0.89	.....	3	18	7	5	ne.	Jno. H. Powe.
Clemson College	Oconee	850	9	76.0	.....	97	9	46	18	32	2.64	-1.42	2.56	.....	3	14	13	3	e.	Prof. C. C. Newman.
Columbia	Richland	336	13	79.0	+5.2	100	13	55	19	32	3.29	-0.83	2.55	.....	5	23	3	4	ne.	Central Office.
Conway	Horry	49	9	.....	.....	.....	.....	.....	.....	.....	2.61	-1.83	0.90	.....	4	17	11	2	se.	P. Quattlebaum.
Darlington	Darlington	175	5	.....	.....	.....	.....	.....	.....	.....	3.59	.....	2.08	.....	6	22	6	2	.....	E. R. McIver.
Edisto	Bamberg	143	7	.....	.....	.....	.....	.....	.....	.....	1.72	-1.89	0.95	.....	4	18	9	3	ne.	Miss Jerry Carter.
Edlingham	Florence	106	8	.....	.....	.....	.....	.....	.....	.....	2.20	-1.40	2.20	.....	1	28	1	1	se.	A. J. Howard.
Florence	Florence	156	12	76.8	+2.1	96	14	54	19	31	3.47	-0.35	1.85	.....	6	24	2	4	ne.	H. K. Gilbert.
Gaffney	Cherokee	.....	4	.....	.....	.....	.....	.....	.....	.....	2.17	.....	1.05	.....	5	17	9	4	ne.	B. F. Camp.
Georgetown	Georgetown	12	7	76.2	+0.2	92	*14	58	17	27	4.75	+2.37	2.25	.....	3	27	0	3	ne.	W. T. Turbeville.
Gillisonville	Hampton	.....	5	78.4	+2.7	98	*12	50	19	37	2.77	-0.13	1.19	.....	9	15	12	3	e.	Sam P. Salts.
Greenville	Greenville	1,000	8	73.8	+2.3	94	13	51	18	34	3.51	-0.42	1.92	.....	4	23	2	5	.....	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	12	76.2	+2.8	94	13	52	18	33	2.45	-1.28	1.40	.....	4	22	1	7	w.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	8	69.4	+2.4	84	12	45	18	28	6.74	+0.91	3.00	.....	5	14	10	6	sw.	B. C. Hawkins.
Holland	Anderson	.....	12	73.0	+0.8	95	*11	45	17	43	2.87	-2.57	2.25	.....	2	21	7	2	.....	Dr. J. W. Earle.
Kingstree (1)	Williamsburg	77	12	75.7	+0.3	93	13	52	19	31	2.03	-2.57	0.74	.....	5	18	8	4	ne.	C. J. Leesene.
Kingstree (2)	.....	77	6	.....	.....	.....	.....	.....	.....	.....	2.40	-1.25	1.20	.....	4	18	8	4	ne.	W. H. Matthews.
Liberty	Pickens	.....	6	75.0	+2.1	96	*10	50	17	35	3.95	-2.05	3.60	.....	2	23	3	4	sw.	Jno. T. Boggs.
Little Mountain	Newberry	711	7	78.0	+2.0	98	12	52	18	28	3.92	+0.73	3.43	.....	4	18	10	2	e.	John M. Sease, M. D.
Longshore	Newberry	530	7	77.2	+3.5	98	12	49	18	32	2.42	-1.38	1.62	.....	4	20	5	5	e.	W. G. Peterson.
Pinopolis	Berkeley	.....	7	75.9	+1.8	91	12	59	19	.....	3.78	-0.32	1.64	.....	6	13	13	4	e.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	14	75.8	+4.0	96	12	52	18	26	2.13	-0.97	1.73	.....	6	20	9	1	s.	Weather Bureau.
St. Georges	Dorchester	109	12	77.6	+2.8	95	*13	53	19	33	3.65	-1.71	2.30	.....	4	20	7	3	.....	W. B. Raysor.
St. Matthews	Orangeburg	254	12	78.6	+3.7	98	13	55	19	36	1.70	-2.18	1.50	.....	3	18	6	6	.....	J. S. Wannamaker.
St. Stephens	Berkeley	73	8	.....	.....	.....	.....	.....	.....	.....	2.46	-1.30	1.06	.....	7	15	8	7	.....	C. T. Shuler.
Sautuc	Union	512	7	76.8	+3.8	100	13	47	18	36	1.44	-2.10	1.00	.....	3	17	10	3	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	31	79.3	+3.0	96	25	63	19	24	4.39	-1.46	1.20	.....	11	15	12	3	e.	Weather Bureau.
Shaws Fork	Aiken	500	7	78.4	+1.2	99	*11	50	18	38	1.62	-1.84	1.05	.....	4	19	8	3	sw.	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	5	.....	.....	.....	.....	.....	.....	.....	2.77	.....	1.20	.....	7	18	7	5	ne.	H. van Keuren.
Society Hill	Darlington	192	9	76.8	+3.9	94	13	55	18	30	4.35	+0.10	2.23	.....	4	23	5	2	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	9	74.8	+2.2	96	13	47	18	36	2.11	-2.17	1.31	.....	4	23	1	6	.....	F. P. Robinson.
Statesburg	Sumter	500	20	79.8	+6.5	99	13	55	*18	28	1.27	-2.04	0.60	.....	6	21	5	4	e.	W. W. Anderson, M. D.
Summerville	Dorchester	.....	3	76.7	.....	93	13	55	18	32	4.68	.....	3.04	.....	6	21	8	1	ne.	Prof. Jno. Gadsden.
Temperance (e)	Marion	100	2	78.2	.....	100	14	48	18	43	1.08	.....	0.58	.....	3	8	12	1	w.	J. R. Reaves.
Trenton	Edgefield	620	7	79.0	+1.8	94	12	59	18	21	2.17	-1.61	1.46	.....	4	16	11	3	s.	C. A. Long.
Trial	Berkeley	.....	14	74.2	+0.5	91	12	50	19	34	6.15	+2.13	3.31	.....	9	12	15	3	ne.	Etsell Gaillard.
Walhalla	Oconee	1,061	10	73.2	+2.7	93	12	45	17	38	4.28	-1.45	3.00	.....	4	23	4	3	ne.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	31	76.6	+3.0	94	13	56	19	26	2.38	-3.26	0.82	.....	6	20	9	1	se.	Weather Bureau.
Winnboro	Fairfield	545	11	75.6	+2.7	93	13	54	18	41	1.55	-2.70	1.55	.....	1	27	2	1	e.	John W. Seigler.
Winthrop College	York	690	1	77.4	.....	97	12	52	*18	31	1.78	.....	0.90	.....	4	18	7	5	ne.	Prof. Cleve and Abbe, jr.
Yemassee	Beaufort	23	5	78.6	+2.2	96	*13	54	19	35	3.55	.....	1.50	.....	6	16	10	4	.....	R. G. Smith.
Yorkville	York	680	12	79.4	+6.4	100	12	54	18	29	1.70	-2.71	0.67	.....	4	16	10	4	e.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				77.1	+2.9	100	*13	45	17	43	2.83	-1.30	3.60	.....	5	19	8	3	ne.	.....

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., and 9 and 2 p. m. observations.



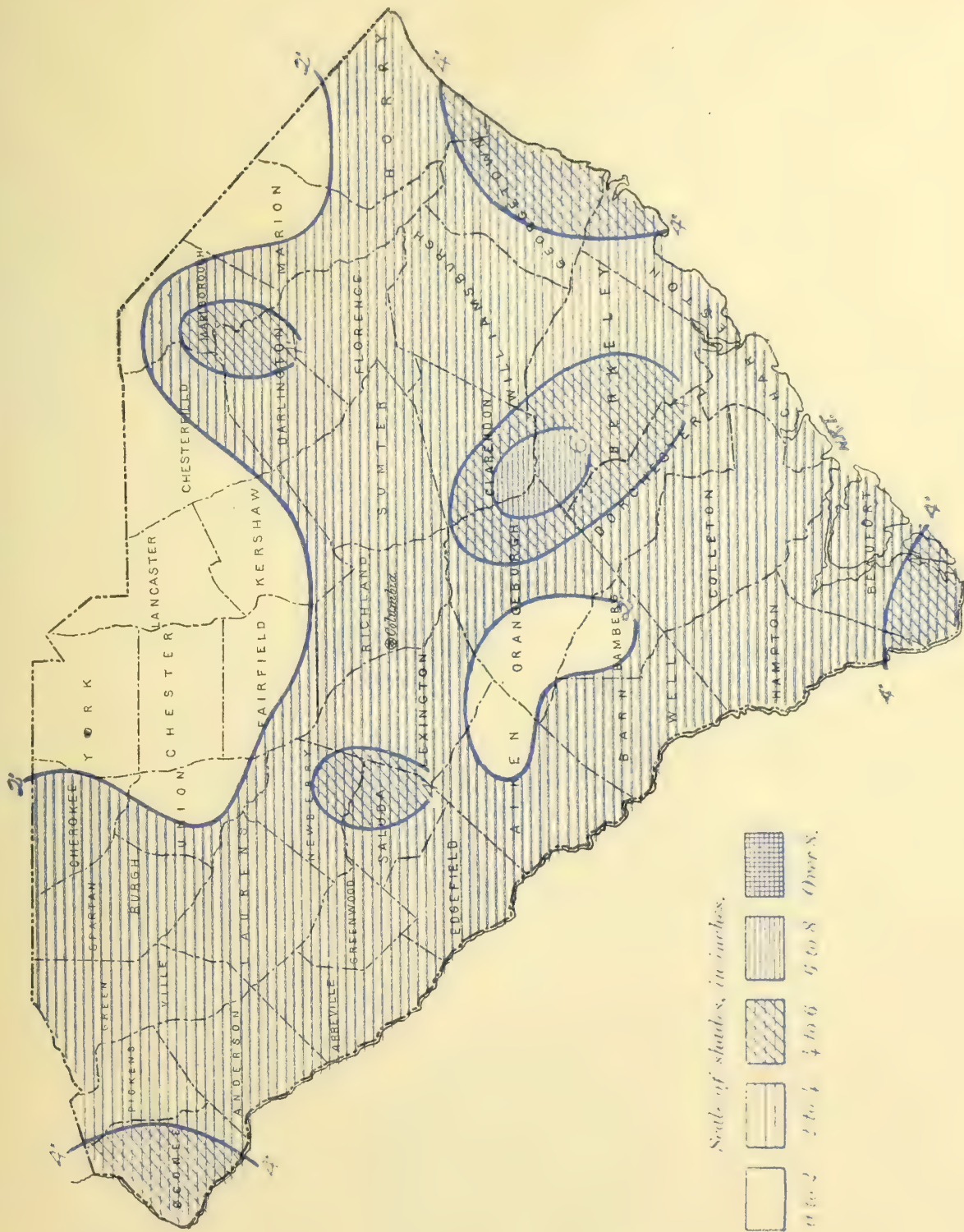
STATIONS.

[illegible]

Temperatures from 2 P. M. and 7 A. M. observations. 0 represents 100.



# TOTAL PRECIPITATION FOR SEPTEMBER, 1900.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, SEPTEMBER, 1900.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Allendale	3.40		.12												.10	.32																3.94	
Augusta, Ga.	.28	.02												.18	1.79	.05																2.32	
Batesburg	.05	1.00													1.63	2.03																4.71	
Beaufort	.45	.14					†	.18					.05	.28	2.50	.02				.01	.02							.03		.09		3.77	
Blackville	.46	.20		.01				†					.03	.70	1.79																	3.19	
Calhoun Falls	.32													2.45	.67	.11																3.55	
Camden	.01							†						†	.78	.72							.02							.12		1.65	
Charleston	.95					.03	.02	†					.66		.21	.24														.11		2.34	
Charlotte, N. C.												†	.08	.07	.52							.02	.04						†	†		0.73	
Cheraw(1)														†	.45	1.10														†		1.55	
Cheraw(2)		†												.02	.46	.89																1.37	
Clemson College		†												1.68	.88	.08																2.64	
Columbia	.55		.01										†	.10	2.55	.08																3.29	
Conway			.55	†		.51									.65	.90																2.61	
Darlington, near													.12	2.08	1.10								.02							.06	.21	3.59	
Edisto						.25	.10								.95																.42	1.72	
Effingham															2.20																	2.20	
Florence	.37		.05			.03								.04	1.83	1.15															†	3.47	
Gaffney	.16														1.05	.56															.30	2.17	
Georgetown	.50							2.25	2.00																								4.75
Gillisonville	.42	.32			.10	.20	.42						.01	.10	1.19				.01	†			†									2.77	
Greenville	†	.12											.12	1.92	1.35																	3.51	
Greenwood	.25													.05	.75	1.40																2.45	
Horse Cove, N. C.				†									.58	3.00	2.86					.02	†	†				.28						6.74	
Holland														2.25	.62																	2.87	
Kingstree(1)				.02				.65							.55	.74															.07	2.03	
Kingstree(2)								.60							1.20	.50															.10	2.40	
Liberty													†	3.60	.35																	3.95	
Little Mountain	.18													.22	3.43	.09															†	3.92	
Longshore	.09												.02	1.62	.69								†									2.45	
Pinopolis	.62		.10											.62	1.64	.20															.60	3.78	
Raleigh, N. C.				†										†	.33	1.73					.01	.02						†	.03		.01	2.13	
St. Georges	2.30								.35						.80	.20																	3.65
St. Matthews		1.50													.10	.10																	1.70
St. Stephens	.74	.06		.05				.04							.24	1.06															.27		2.46
Santuc	†												.15	.09	1.00								†									1.24	
Savannah, Ga.	1.20	.01	.31	.84	†	.02	.17	.01					.85	†	.26	.40				†	†								.27			4.39	
Shaws Fork	.18	.22												.17	1.05																	1.62	
Smiths Mills	.70		.10	†		.05								.12	1.20	.50	.10															2.77	
Society Hill													.09	2.23	.32															1.71		4.35	
Spartanburg	†				.20								.03	†	1.31	.57								†							†	2.11	
Statesburg	.12	†	†										.07	.09	.50	.35														.14		1.27	
Summerville	.96	.03	.04			†								.26	3.04															.35		4.68	
Temperance					.37								.13	†	.58																	1.08	
Trenton	.21													.35	1.46	.15																2.17	
Trial	.17	.23	†		.09			.32					.15	.02	3.31														.05		1.81	6.15	
Walhalla	.20														.40	.82																4.28	
Wilmington, N. C.		†	†										.40	.40	.70		.82						†	†					.05	.01		2.38	
Winnsboro															1.55								†							†		1.55	
Winthrop College													.08	.01	.79								†									1.78	
Yemassee	.40	1.50					.10	.40							.67	.46																3.55	
Yorkville													.28	.17	.67							†								.58		1.70	

\* Precipitation included in that of the following day.

† indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR OCTOBER, 1900.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR OCTOBER, 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

Vol. III. COLUMBIA, S. C., OCTOBER, 1900. No. 10.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for October, 1900, was  $67.6^{\circ}$ , which is  $5.3^{\circ}$  above the normal. The highest local mean was  $72.4^{\circ}$  at Beaufort, and the lowest local mean was  $63.2^{\circ}$  at Holland. The highest temperature for the month was  $95^{\circ}$  at Blackville on the 1st, and the lowest temperature for the month was  $33^{\circ}$  at Cheraw (1) and at Santuc on the 18th, making the State range  $62^{\circ}$ . The greatest local monthly range was  $57^{\circ}$  at Cheraw (1), and the least local monthly range was  $27^{\circ}$  at Charleston. The greatest daily range was  $42^{\circ}$  at Santuc. The mean of the daily maximum temperatures was  $76.6^{\circ}$ , and of the daily minimum temperatures was  $58.6^{\circ}$ .

Frosts.—The first light frost of the season, and the only one for the month, was noted as follows: Batesburg, Camden, Cheraw, Columbia, Gaffney, Greenville, Greenwood, Little Mountain, Longshore, Santuc, Society Hill, Spartanburg, Temperance, Trenton, Rock Hill, and Yorkville, 18th; Darlington, 17th; Shaws Fork, 16–19th.

Precipitation, in Inches.

The State average precipitation for October, 1900, was 3.65 inches, which is 0.52 in excess of the normal. The rainfall was evenly distributed, with small areas having less than 2 inches, and other small areas with over 6 inches, but the greater portion of the State had from 2 to 6 inches. The greatest local amount was 8.44 inches at Smiths Mills, and the least local amount was 1.79 inches at Florence. The greatest 24-hourly fall was 3.00 inches at Walhalla on the 22–23d. The average number of days with rain was 9, ranging from 3 at Allendale to 14 at Little Mountain.

Excessive Rains: Smiths Mills, 5th, 2.70 in 24 hours; Trenton, 25th, 0.60 in 30 minutes; Walhalla, 22–23d, 3.00 in 24 hours.

Weather.—The average number of clear days was 13, of partly cloudy days was 7, and of cloudy days was 11.

Winds.—The prevailing direction of the wind was from the northeast at 27 stations; from the east at 10 stations; from the north at 2 stations; from the southeast, south, west, and northwest at 1 station each.

High Winds.—Beaufort, 20–22d; Charleston, 12th.

## WEATHER AND CROPS.

The month of October, 1900, while warmer and with slightly more rainfall than usual, was quite favorable for maturing outstanding field crops, for gathering them, and for preparing and seeding fall grains, principally oats and rye.

There was a light frost over the central and northern counties on the morning of the 18th, the first of the season and the only one for the month, but even the most tender vegetation was not affected except in small spots where sweet potatoes and cotton were somewhat nipped. The temperature was generally high enough, and the soil held sufficient moisture, to stimulate new growth of many fall crops, particularly cotton, which in places grew vigorously and fruited heavily, taking on squares, blooms and bolls in profusion, but the bolls grew and opened slowly. The bulk, if not the entire early crop of open bolls, was picked by the 20th, after which the picking was limited to the slowly-maturing top crop, and was light in comparison with first pickings.

The corn crop was nearly all gathered during the month and was cribbed in good condition, with no improvement in the yields over the previous month. Generally early corn made an average crop, while late planted and stubble corn were practically failures.

The last of the river rice crop was harvested without mishap. Sweet potatoes were improved by the weather conditions, as were late peas and grass for hay, and turnips where stands had been obtained.

Oats were largely sown and germinated quickly, with unusually luxuriant stands of oats sown in September. The same is true of rye. Very little wheat was sown, although much ground was prepared and the indicated acreage is larger than usual. Pasturage was abundant during the entire month.

The weather conditions were most favorable to agricultural pursuits in the western, and least favorable in the southeastern portions.

## MISCELLANEOUS PHENOMENA (with dates).

Halos, Solar.—Charleston, 3, 4, 5, 7; Gillisonville, 7, 12; Santuc, 11; Statesburg, 10, 11, 20.

Halos, Lunar.—Charleston, 3, 7; Columbia, 6; Gillisonville, 2, 7, 16, 31; Santuc, 6, 7, 11.

Thunderstorms.—Beaufort, 2, 3, 4, 8, 20, 23; Blackville, 3, 4, 23, 24; Charleston, 3, 4, 8; Cheraw (2), 8; Clemson College, 21; Columbia, 3, 8, 12, 23; Gillisonville, 2, 3, 4, 7,



8, 24; Liberty, 5, 12, 22, 23; Longshore, 4, 5, 12, 22, 23; Santuc, 5, 23; Shaws Fork, 23, 24; Statesburg, 12, 23; Trenton, 12, 22; Walhalla, Winthrop College, 23.

Fogs, Dense.—Blackville, 6, 7, 8, 24, 25, 30; Camden, 14, 25, 26; Charleston, 28; Cheraw (2), 8, 14; Clemson College, 24, 27, 28, 29, 30; Gillisonville, 15, 16, 24, 25, 26, 27, 29, 30; Greenville, 30; Liberty, 6, 24, 27, 30; Longshore, 6, 7, 8, 29, 30, 31; St. Stephens, 8, 14, 27, 28; Santuc, 6, 7, 26, 27, 28, 30; Shaws Fork, 6, 7, 14; Smiths Mills, 9, 27; Society Hill, 14, 30, 31; Statesburg, 6, 7, 8, 14, 24, 25, 27; Winthrop College, 14, 24, 25, 30.

#### REMARKS BY OBSERVERS.

Longshore.—Enough frost on the 18th to nip tender vegetation.—W. G. Peterson.

Yorkville.—Light frost reported from the country on the 18th, but none visible here.—J. R. Schorb.

Society Hill.—The light frost on the morning of the 18th killed sweet potatoes in exposed places, and increased their yield; no damage to cotton save on lowlands.—Maj. J. J. Lucas.

Beaufort.—The latter part of the month was very dry. The month generally was favorable for harvesting cotton and corn. Turnips and fall gardens stand in need of rain.—S. M. Benton.

Gillisonville.—The month was warm and dry, conditions unfavorable to growth of fall crops and gardens. Little grain was sown, and it came up to fair stands on lowlands. Water very low in bays and creeks.—Sam P. Saltus.

Batesburg.—The month was very warm and pleasant except on a few days. Light frost on the 18th did damage in a few places only. The second growth of cotton looks very promising. Some fruit trees are in full bloom. Farmers are sowing grain.—E. J. Hite.

Trenton.—Precipitation for the month 2.84 inches, which is 0.90 inch less than the 8-year average for October, and the precipitation since January 1st is 8.60 inches less than the 7-year average for the first 10 months of the year. The yield of cotton is three-fifths of an average crop.—C. A. Long.

Holland.—There was somewhat more than the normal rainfall during October. The ground is not thoroughly wet, but has enough moisture for turnips and other fall crops. Second crop of Irish potatoes are blooming with prospects of a fair yield. The last ten days were unfavorable for cotton to open, and for picking.—Dr. J. W. Earle.

Santuc.—The month was a good one for farmwork. Much grain was sown, and the conditions were favorable for rapid

germination, and for growth. There were many fogs, very dense along the river course with precipitation as from light rain. The frost on the 18th was heaviest along the streams, and was considered more beneficial than harmful; it did but little damage to vegetation.—E. W. Jeter.

Liberty.—Unusually cloudy and damp month, but with a small amount of rain. Ground was too dry for plowing and to bring up grain until the 22d, after which date it remained damp and warm. Cotton has made a second growth, and the fields look green. Small grain sown in September is doing well. But few turnips this year. Late peas are good, and the second crop of hay is being cut.—John T. Boggs.

#### NOTES AND COMMENTS

A new voluntary observing station has been authorized at McColl, in Marlboro county, with Mr. N. L. Thayer as observer. Observations will probably begin on December 1st proximo.

There are two other points in the State where voluntary observing stations are desired, one at Lancaster and the other at Laurens. Efforts heretofore made to secure desirable observers at those points have failed.

With the opening of a new station in Marlboro county, and the probable establishment of stations in Lancaster and Laurens counties, there would remain only Chester county without a meteorological station of some kind reporting to this office, but this county would be so surrounded by stations that its climatic conditions, if peculiar, would be shown by them as well as if a station was located there.

That the climate of adjoining regions differs materially, especially in their temperatures, is shown conclusively by the contour of the lines connecting the places having the same monthly mean temperatures. These differences are not accidental or due to erroneous records, but continue from month to month and are not affected by changes in the instruments or observers. There is less regularity in the rainfall distribution, but there are great differences assignable to transient influences.

A study of the records of Climate and Crop Service of the Weather Bureau, in connection with the study of the soils and the normal rainfall distribution, can be made valuable to the agriculturalist, in determining the best time for planting early crops so that they may receive the benefit of continuous growth and escape the dangers of late frosts in the spring. Also in determining the kind or variety of crops best adapted to any particular climate and soil, and the fertilizers best suited either to force or to retard the growth of crops, whichever experience has proven to be most desirable, so as to get the benefit of a prolonged season, or to bring them to early maturity to avoid killing frost in the autumn.



CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER, 1900.																				
STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.							Precipitation—in inches.					Sky.				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.	
Allendale	Barnwell	186	12	69.2	+5.8	89	1	47	19	26	1.90	-0.44	1.25	.....	3	22	0	9	.....	G. G. Dowling.
Augusta, Ga.	Richmond	134	29	69.2	+5.2	85	6	44	18	30	2.63	+0.10	1.20	.....	10	9	8	14	ne.	Weather Bureau.
Batesburg	Lexington	656	12	68.0	+5.4	89	1	43	18	25	3.71	+0.73	0.75	.....	9	15	9	7	.....	E. J. Hite.
Beaufort	Beaufort	28	14	72.4	+5.4	90	1	49	19	32	3.33	+0.03	1.92	.....	7	16	8	7	ne.	S. M. Benton.
Blackville	Barnwell	293	12	69.4	+5.8	95	1	41	18	32	4.80	+2.31	2.37	.....	12	9	20	2	ne.	G. D. C. Lange.
Calhoun Falls	Abbeville	354	7	.....	.....	.....	.....	.....	.....	.....	6.61	+3.33	2.00	.....	10	14	0	17	ne.	P. J. Pfeiffer.
Camden	Kershaw	222	34	.....	.....	.....	.....	.....	.....	.....	2.90	+0.35	1.20	.....	9	13	6	12	ne.	B. Ammons.
Charleston	Charleston	48	31	70.5	+3.5	82	1	55	18	19	4.63	+0.48	1.73	.....	10	10	13	8	ne.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	22	65.2	+4.2	86	6	42	18	30	3.41	-0.04	1.64	.....	10	11	9	11	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	114	12	67.7	+7.2	90	1	33	18	37	3.16	+0.71	1.43	.....	9	16	1	14	ne.	W. R. Godfrey.
Cheraw (2)	.....	108	7	.....	.....	.....	.....	.....	.....	.....	2.48	-0.24	1.10	.....	10	12	6	13	ne.	Jno. H. Powe.
Clemson College(c)	Oconee	850	9	67.0	.....	87	6	45	19	35	3.81	+0.84	1.62	.....	11	10	10	10	e.	Prof. C. C. Newman.
Columbia	Richland	336	13	68.3	+4.2	87	6	39	18	35	4.88	+2.49	1.54	.....	11	10	8	13	ne.	Central Office.
Conway	Horry	49	9	.....	.....	.....	.....	.....	.....	.....	4.93	+2.79	1.20	.....	8	11	5	15	ne.	P. Quattlebaum.
Darlington	Darlington	175	5	.....	.....	.....	.....	.....	.....	.....	1.92	.....	0.75	.....	10	14	11	6	.....	E. R. McIver.
Edisto	Bamberg	143	7	.....	.....	.....	.....	.....	.....	.....	5.57	+3.52	1.75	.....	8	13	9	9	n.	Miss Jerry Carter.
Ellingham	Florence	106	8	.....	.....	.....	.....	.....	.....	.....	2.49	-0.66	0.95	.....	7	13	6	12	ne.	A. J. Howard.
Florence	Florence	156	12	67.0	+4.2	85	*1	38	*18	32	1.79	-1.05	0.70	.....	9	15	0	16	.....	H. K. Gilbert.
Gaffney	Cherokee	.....	4	.....	.....	.....	.....	.....	.....	.....	2.11	.....	0.63	.....	10	13	4	14	ne.	B. F. Camp.
Georgetown	Georgetown	12	7	68.8	+4.2	86	*1	47	*16	28	5.55	+2.97	2.25	.....	5	26	1	4	ne.	W. T. Turbeville.
Gillisonville	Hampton	.....	5	69.0	+3.3	90	*5	41	19	39	1.09	.....	0.50	.....	8	13	5	13	e.	Sam P. Salts.
Greenville	Greenville	1,000	8	63.7	+3.1	87	1	41	18	29	2.86	-0.24	1.41	.....	6	14	2	15	.....	Jno. S. A. Crittenden.
Greenwood	Greenwood	671	12	65.9	+3.9	87	1	43	18	33	4.10	+1.48	1.60	.....	8	11	1	19	w.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	8	60.4	+5.5	75	5	43	11	25	8.63	+6.32	4.51	.....	11	8	6	17	e.	B. C. Hawkins.
Holland	Anderson	.....	12	63.2	+3.1	82	1	39	17	33	5.08	+1.32	2.00	.....	8	.....	.....	.....	.....	Dr. J. W. Earle.
Kingstree (1)	Williamsburg	77	12	66.5	+1.8	85	*6	40	18	31	5.24	+3.22	2.25	.....	11	13	7	11	ne.	C. J. Lesene.
Kingstree (2)	.....	77	6	.....	.....	.....	.....	.....	.....	.....	5.23	+3.01	2.00	.....	11	13	7	11	ne.	W. H. Matthews.
Liberty	Pickens	.....	6	65.2	+6.2	86	6	43	*13	36	3.62	+0.55	1.25	.....	7	15	3	13	e.	Jno. T. Boggs.
Little Mountain	Newberry	711	7	68.2	+3.6	88	7	39	18	35	4.37	+1.73	1.03	.....	14	11	10	10	ne.	John M. Sease, M. D.
Longshore	Newberry	530	7	67.2	+5.8	89	7	36	18	40	2.12	-1.18	0.73	.....	10	5	10	16	e.	W. G. Peterson.
Pinopolis	Berkeley	.....	7	67.6	+4.0	86	4	48	*18	.....	4.36	+0.64	1.62	.....	7	13	10	8	e.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	14	65.6	+5.6	88	6	38	18	35	1.04	-2.84	0.34	.....	9	14	9	8	ne.	Weather Bureau.
St. Georges	Dorchester	109	12	68.9	+5.3	87	6	45	17	30	3.47	+0.93	1.10	.....	8	18	5	8	.....	W. B. Raysor.
St. Matthews	Orangeburg	254	12	69.1	+4.9	89	22	42	18	28	2.96	+1.01	1.10	.....	11	14	6	11	.....	J. S. Wannamaker.
St. Stephens	Berkeley	73	8	.....	.....	.....	.....	.....	.....	.....	3.81	+1.17	0.80	.....	12	11	7	13	n.	C. T. Shuler.
Santuc	Union	512	7	66.5	+5.7	88	6	33	18	42	2.20	-2.53	0.37	.....	11	8	9	14	e.	E. W. Jeter.
Savannah, Ga.	Chatham	71	31	71.4	+4.4	86	1	52	18	24	5.87	+2.13	3.80	.....	11	12	6	13	ne.	Weather Bureau.
Shaws Fork	Aiken	500	7	68.6	+4.6	90	*6	42	*14	38	2.48	+1.22	0.73	.....	10	11	12	8	ne.	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	5	.....	.....	.....	.....	.....	.....	.....	8.44	.....	2.70	.....	12	13	7	12	ne.	H. van Keuren.
Society Hill	Darlington	192	9	66.5	+5.5	84	5	39	17	25	2.49	-0.62	0.69	.....	9	13	4	14	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	9	64.6	+3.9	86	1	38	18	38	3.56	+0.45	0.90	.....	9	11	4	16	.....	F. P. Robinson.
Statesburg	Sumter	500	20	69.5	+6.4	89	7	41	18	27	2.15	-0.70	0.61	.....	10	9	7	15	e.	W. W. Anderson, M. D.
Summerville	Dorchester	.....	3	68.0	.....	91	*5	45	18	27	5.00	.....	2.00	.....	9	15	8	8	ne.	Prof. Jno. Gadsden.
Temperance (a)	Marion	100	2	68.3	.....	91	*1	36	18	40	3.48	.....	1.30	.....	7	11	12	8	e.	J. R. Reaves.
Trenton	Edgefield	620	7	69.2	+3.7	83	*6	48	18	24	2.84	-0.48	0.60	.....	9	11	10	10	s.	C. A. Long.
Trial	Berkeley	.....	14	65.4	+2.5	84	6	39	18	35	4.56	-0.50	2.03	.....	9	12	6	13	ne.	Etsell Gaillard.
Walhalla	Oconee	1,061	10	64.1	+5.6	81	*6	42	17	30	5.19	.....	3.00	.....	9	13	8	10	se.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	31	68.0	+4.0	85	5	46	18	28	4.20	+0.24	1.75	.....	9	11	14	6	ne.	Weather Bureau.
Winnsboro	Fairfield	545	11	66.0	+4.3	84	1	41	18	24	2.70	+1.02	0.75	.....	6	22	8	1	ne.	John W. Seigler.
Winthrop College	York	690	1	66.4	.....	87	7	41	18	36	2.16	.....	0.98	.....	9	7	10	14	e.	Prof. Cleve and Abbe, jr.
Yemassee	Beaufort	23	5	69.2	.....	87	7	41	18	32	2.86	.....	0.86	.....	7	15	6	10	.....	R. G. Smith.
Yorkville	York	680	12	68.4	+7.2	90	6	42	18	37	2.92	-0.99	1.00	.....	9	11	7	13	e.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				67.6	+5.3	95	1	33	18	42	3.65	+0.52	3.00	.....	9	13	7	11	ne.	.....

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

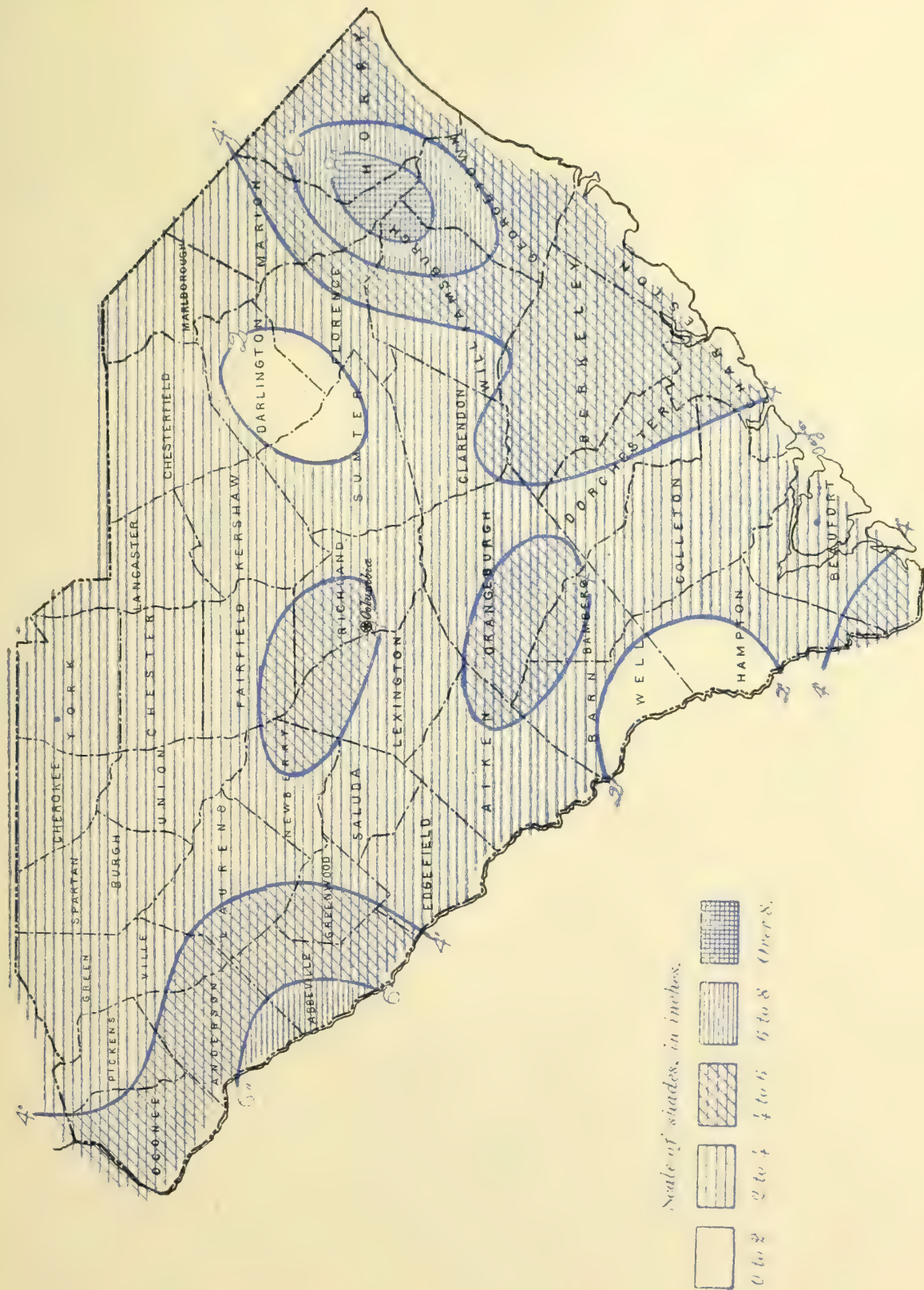
† Mean from 7 a. m., and 9 and 2 p. m. observations.







# TOTAL PRECIPITATION FOR OCTOBER, 1900.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, OCTOBER, 1900.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Allendale				.30	1.25								.35																			1.90	
Augusta, Ga.		†	.32	.17	†		.18	.15	1.20		.02	.33	.04									†	.08		.14	†						2.63	
Batesburg	.03		.05	.60	.75				.45			†	.50	.03								†		.09		.70		.60				3.71	
Beaufort		.07	1.92	.24			†	.68	†		.30	†	.03																			3.33	
Blackville			.13	.88	.11	†		.02	.10	.10		.05	.76										.13	.14	2.37	.01						4.80	
Calhoun Falls		†		.25	.15	.15		.07	.11			.07	1.86										.96	2.00	.99							6.61	
Camden		†	.10	.46	.27				.47			.02	1.20									†	.18	.07	.04							2.90	
Charleston		†	.07	.48	.31	.02		.02	.66		†	1.73	†							.03	.40	.91	†	†	†							4.63	
Charlotte, N. C.		†	.02	.08	.13	.01		.78	.20			†	.25								†	.26	1.64	.04								3.41	
Cheraw(1)	.20	†	.05	.15	†				.35			†	.10	.45									.33	†	1.43	.10						3.16	
Cheraw(2)	.04	.01	.03	.15	†				.39				.11	.24									.41	†	1.09	.01						2.48	
Clemson College		†	.02	.09	.34	.01		.17				.05	.22								†	.50	.38		.41	1.62						3.81	
Columbia		.08	.64	1.54	.06			.55			†	.58	.36								.02	.08	.74		.23							4.88	
Conway		.13	1.20	.90	†			.65				.60										.35	.35		.75							4.93	
Darlington, near		.17	.50	.02			†	.02	†		.02	†	†									.30	.05	.75	.08	.01						1.92	
Edisto				1.75	.92				.35			.92	.75									.05	.18	.65								5.57	
Effingham			†	.95	.06			.23				.46											.47	.11		.21						2.49	
Florence		†	†	.08	.70	.13			.02			.03	†									†	.05	.64	.02	.12						1.79	
Gaffney			.04	.17	.30	.07		.45	.18			.25									.05	†	.15	.45								2.11	
Georgetown		.50	2.25					1.20				1.10										.50										†	5.55
Gillisonville			.50	.10			.15	.28			.40	.12									†	†	†	.40	.04							1.99	
Greenville		†	.18	.13	.28			†				†										.24	.62	1.41		†						2.86	
Greenwood				.42	.40				1.60			.03	1.25									.50	.41	.05	.30	.05						4.10	
Horse Cove, N. C.		†	.17	.56	.34		.01	.74	†			.61	†									4.51	1.00		†	.13	.06					8.63	
Holland				.24	.22			.19	.18				.55									2.00			1.70							5.08	
Kingstree(1)			1.40	1.80	.45			.15	.35			.20	.28									.05	.20	.10		.26						5.24	
Kingstree(2)			1.50	1.60	.40			.16	.43			.22	.30									.07	.18	.12		.25						5.23	
Liberty		†	†	†	.57			.15	†	†	†	†	†								.25	1.25	.75		.25	.40						3.62	
Little Mountain	1.03	.04	.47	.76	.03		.63	.20		.05	.30	.24									.05	.10	.42		.05							4.37	
Longshore		.06	.22	.25	.07			.10	.03			.73	.08								†	†	†	.54	.04	†						2.12	
Pinopolis		.27	.57	.27				1.38														.25	1.62		†							4.36	
Raleigh, N. C.		†	.13	.04	.16	.01		.34	.18			.10	†									†	†	.06	.02							1.04	
St. Georges		.10	.15	1.10				.55				.90	.15									.30	.24									3.49	
St. Matthews	.58		.43	.10	.30			.05				.60	.50									.05	.10		.15	.10						2.96	
St. Stephens		.02	.19	.55	.80			.14	.35			.17	.32									.21	.99		.05	.02						3.81	
Santuc		.03	.01	.25	.32			.10	.35			.17	.18									.10	.32	.37	†							2.20	
Savannah, Ga.	.06		.04	3.80	.75	†	.09	.38	.01	.31	.23	†									.16	.04		†								5.87	
Shaws Fork		.05	.21	.76	.07			.03	.14			.21										.04	.24		.73							2.48	
Smiths Mills		.80	.30	1.16	2.70	†		.03	1.20	.02		.05	.60									.10	.20		2.00							8.44	
Society Hill			.69				.60	.50			.03	.05		.02								.47	.01	.12								2.49	
Spartanburg			.03	.15	.45	.85		.12				.90										†	.12	.33	.61							3.56	
Statesburg		.21	.15	.32	.06			.22			.05	.61	.02									.43	.08									2.15	
Summerville		.07	.57	.39			2.00				.21	.62	†								.07	1.05	.02									5.00	
Temperance		†	.20	1.23			.30				.20	.17										†	.29			.09							3.48
Trenton			.42	.32	.07			.42			.08	.53	.26										.14		.60							2.84	
Trial		.03	.57	.50			†	2.03	†		.47	.14										.20	.50		.12							4.56	
Walhalla		†	†		.58			.30			†	.31											3.30			.70						5.19	
Wilmington, N. C.	.10	†	.36	1.75		†		.33	.01	†		.43	†								.01		†	1.20	.01							4.20	
Winnsboro			.30	.75				.40	.60													.30	.35									2.70	
Winthrop College		.03	.07	.04				.13	.40			†	.98										.23	.21	.07							2.16	
Yemassee	.60		.05	.74				.86				.47	.05													.09						2.86	
Yorkville		†	.14	.12	.04			.64	.15			.29	.26									.28	1.00	†								2.92	

\* Precipitation included in that of the following day

† indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR NOVEMBER, 1900.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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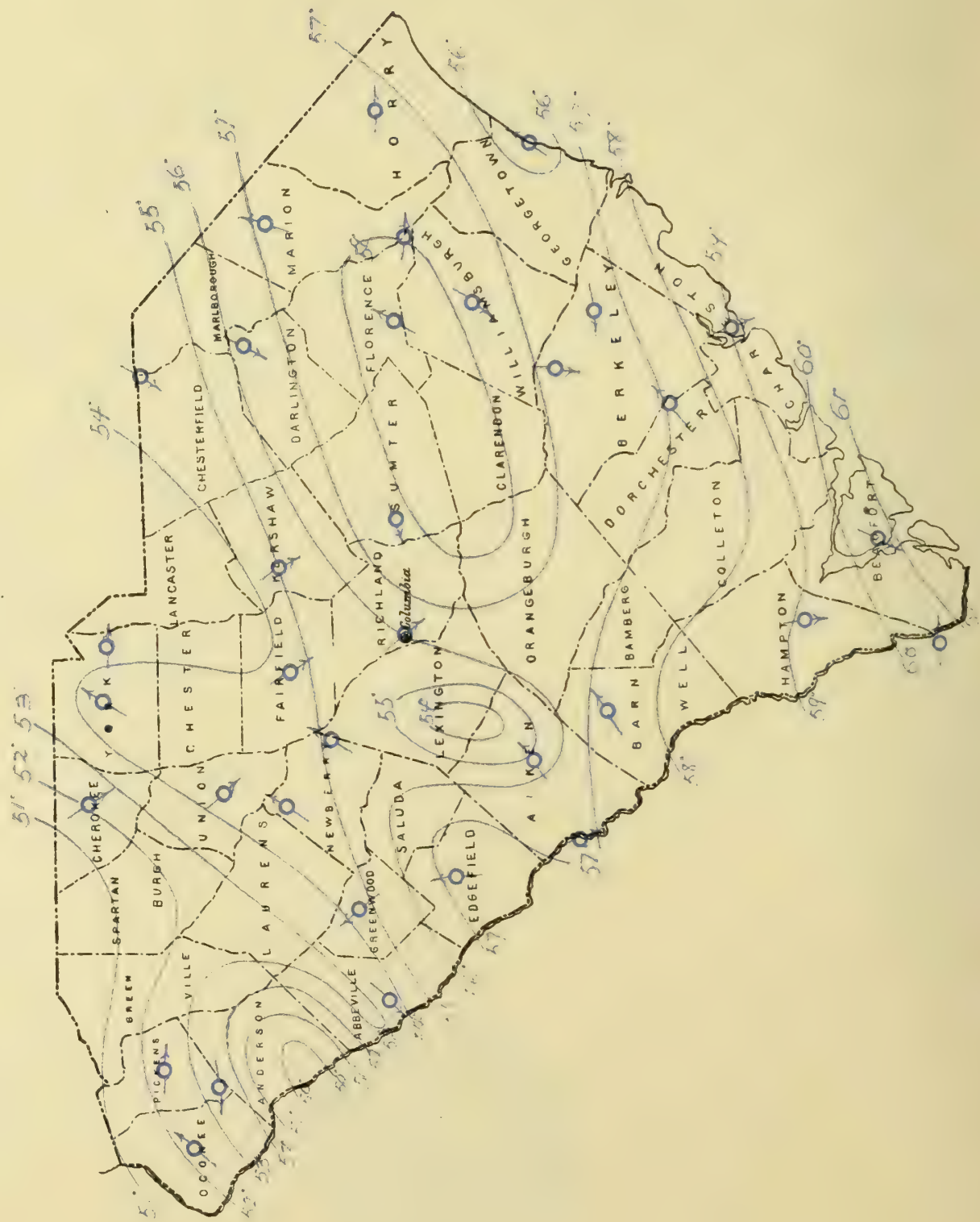


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR NOVEMBER, 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. III. COLUMBIA, S. C., NOVEMBER, 1900. No. 11.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for November, 1900, was 55.6°, which is 1.6° above the normal. The highest local mean was 61.8° at Beaufort, and the lowest local mean was 50.0° at Holland. The highest temperature for the month was 92° at Trial on the 25th, and the lowest temperature for the month was 22° at Holland on the 9th, making the State range 70°. The greatest local monthly range was 67° at Trial, and the least local monthly range was 44° at Charleston. The mean of the daily maximum temperatures was 66.6°, and of the daily minimum temperatures was 44.6°.

Frost, Killing.—The first killing frost of the season occurred at the places and dates named, as follows: On November 8th at Greenville, Holland, Shaws Fork, Summerville, Winthrop College; on November 9th at Augusta, Ga., Batesburg, Blackville, Cheraw, Clemson College, Darlington, Georgetown, Gillisonville, Greenwood, Liberty, Little Mountain, Longshore, Pinopolis, Savannah, Ga., Spartanburg, Statesburg, Trenton, Trial, Walhalla, Winnsboro, Yorkville; on November 10th at Beaufort, Camden, Columbia, Conway, Effingham, Gaffney, Kingstree, St. George, St. Matthews, St. Stephens, Santuc, Smiths Mills, Society Hill, Temperance, Yemassee.

## Precipitation, in Inches.

The State-average precipitation for November, 1900, was 3.32 inches, which is 0.50 in excess of the normal. The greatest local monthly amount was 5.45 inches at Spartanburg, and the least local monthly amount was 1.50 at Georgetown. The greatest 24-hourly fall was 4.05 inches at Charleston on the 3-4th. The average number of days with rain was 6, ranging from 3 at Temperance to 10 at Gaffney.

Excessive Precipitation.—Beaufort, 3-4th, 3.21 inches in 36 hours; Charleston, 3-4th, 4.05 inches in 24 hours; Santuc, 3-4th, 3.21 inches in 24 hours; Smiths Mills, 3-4th, 2.67 inches in 24 hours; Walhalla, 25th, 2.31 inches in 15 hours.

Hail.—Cheraw (2), 25th.

Snow.—Trace at Greenville, 12th, 26th.

Sleet.—Blackville, 12th; Greenville, 26th.

Weather.—The average number of clear days was 13, of partly cloudy days was 8, and of cloudy days was 9.

Winds.—The prevailing direction of the wind was from the southwest at 11 stations, from the northeast at 9 stations, from the northwest at 7 stations, from the west at 5 stations, from the east at 4 stations, from the north at 2 stations, and from the south at 1 station.

High Winds.—Beaufort, 25-26th; Blackville, 26th; Charleston, Walhalla, 8th; Columbia, 4th, 8th, 14th, 24th; Gillisonville, Santuc, 25th; Liberty, 13th, 25th; Shaws Fork, 8th, 25th, 26th; Winthrop College, 21st, 25th.

## MISCELLANEOUS PHENOMENA (with dates).

Sundog.—Beaufort, 29.

Lunar Corona.—Winthrop College, 30.

Solar Halos.—Charleston, 1, 29, 30; Santuc, 17.

Thunderstorms.—Beaufort, 4; Charleston, 3; Cheraw, Longshore, Statesburg, Walhalla, 25.

Lunar Halos.—Beaufort, 7; Charleston, 7, 25, 29, 30; Columbia, 6, 29; Gillisonville, 1, 8, 9; Little Mountain, 28, 29, 30; Santuc, 6, 28, 29; Statesburg, 1, 6, 29; Winthrop College, 28, 29.

Fogs, Dense.—Beaufort, 20; Blackville, 1, 19, 22; Camden, 20, 22, 23, 24, 25; Charleston, 2, 19, 20; Cheraw, Winthrop College, 20, 24; Clemson College, 19, 20, 24; Columbia, 5, 18, 19, 20, 22, 24; Conway, 22; Effingham, 20, 22, 23; Gillisonville, 20, 21, 23; Liberty, 20, 23, 24; Longshore, 19, 20, 21, 22, 23, 24; St. Stephens, 3, 20, 22, 29, 30; Society Hill, 23, 24; Statesburg, 4, 5, 20, 22, 23, 24, 25, 30; Temperance, 19, 20, 21, 22, 23; Walhalla, 18, 19, 20, 23.

## WEATHER AND CROPS.

November averaged warmer than usual, but the range of temperature approached the limits both of extreme warmth and cold. The maximum of 85° at Columbia being the highest in 13 years, while minimum temperatures below 25° are exceptional but occurred at a number of points during this November. Freezing temperature, with ice of varying thickness, was general on the 9th and 10th except over a narrow strip along the immediate coast. After the middle of the month the weather was abnormally warm until near the close when nearly normal temperature prevailed.

The precipitation for November was slightly in excess of the usual amount, and was well distributed over the State. Streams and wells remained low, but the surface soil contained enough moisture to render the ground easily prepared for



sowing fall grains and for quick germination of seed that was sown.

The freezing weather of the 9th and 10th with the subsequent frequent frosts up to the 14th stopped further growth of cotton which, up to the first named date, had continued to bloom and fruit, and also totally destroyed unopened bolls as well as the hope of a top crop. Although a few fields contained small quantities of unpicked cotton at the close of the month, picking was practically finished except for the sea-island variety where a small top crop remained ungathered.

The weather was favorable for thoroughly preparing lands for oats and wheat, and both the temperature and moisture conditions were conducive to quick germination and rapid growth, so that, at the close of the month, excellent stands of both early and late sown grains were the rule.

The reports indicate full acreage of fall oats, and in many localities increased acreage of wheat, while generally the lands received better preparation and more commercial fertilizers than usual. In a few localities hessian flies did some slight damage which was ended by the freeze of the 9th.

Frost during the month did considerable damage to the tender vegetables in the coast-region trucking districts where snap beans, lettuce, peas, radishes, etc., were coming to maturity and being shipped.

The month on the whole was favorable for gathering outstanding crops, and for seasonal farm work.

#### REMARKS BY OBSERVERS.

Longshore.—The frequency of dense fogs was remarkable and noteworthy for this section.—W. G. Peterson.

Society Hill.—Killing frost on the morning of the 10th, which was nearly a month earlier date than last year.—Maj. J. J. Lucas.

Santuc.—On the night of the 25th, as it was clearing after the storm, the wind veered to the northwest and blew with great force all night.—E. W. Jeter.

Little Mountain.—At the end of the month, with few exceptions, wheat has all been sown and much of it had come up to fine stands. Acreage largest since 1883.—John M. Sease, M. D.

Holland.—Cotton picking is about finished, but much of the cotton has not been ginned making it difficult to estimate the yield. Planters are sowing small grain; early sown grain is doing nicely.—Dr. J. W. Earle.

Summerville.—The drop in temperature on the 8th, from 73° to 31°, was unexpected and very sudden and took farmers by surprise. Ice formed on the 8th, 9th, and 12th; no white frost had preceded the ice, something unusual here.—Prof. Jno. Gadsden.

Trenton.—Killing frost on the 9th, with ice one-half inch thick and the ground frozen slightly. Precipitation 3.85 inches, which is 0.96 more than the 8-year average for November, and 7.80 inches deficiency since January 1, 1900. Small grain looks well.—C. A. Long.

Batesburg.—November was a very pleasant month, with a few cool periods giving freezing temperatures that killed all summer crops, including the second crop of cotton. Grain growing nicely, but early in the month was slightly damaged by a fly which the cold weather ended.—E. J. Hite.

Beaufort.—Total precipitation 3.48 inches, all but 0.27 of which fell on 3-4th. Total rainfall 1.23 inches above the normal; mean daily temperature 2° above the normal. The latter portion of the month was very dry. First killing frost on the 10th, which is 25 days earlier than last year.—S. M. Benton.

Gillisonville.—Month very dry, with sudden extreme changes in temperature. First killing frost of the season on the 9th. Many had delayed cutting sugar cane for seed; the effects of the frost on this cannot be estimated until next spring. Large acreage of oats has been planted. Stands are good and have received no injury.—Sam P. Saltus.

Liberty.—Damp and wet weather prevailed, and although there was no excessive rainfall yet the ground was generally too wet to do much plowing. Most of the wheat crop has been sown and is up nicely. Fields sown to oats, rye, and barley look well. Large yield of sweet potatoes, but they lack keeping quality. Cotton crop about all gathered.—John T. Boggs.

#### ERRATA.

Monthly report, October, 1900, on page 5: Kingstree, maximum temperature 85° on the 6th and 7th, should be 86° on the 1st; St. Matthews, maximum temperature 89° on the 22d, should be 90° on the 1st; Shaws Fork, maximum temperature 90° on the 6th, should be 92° on the 1st.

#### NOTES AND COMMENTS

New Forms 1009 have been prepared for issue to voluntary observers. Their exclusive use is to begin on January 1, 1901.

Three stations, Allendale, Edisto, and Florence, have no data for this number of the monthly report. These are the first serious delinquencies for the year. It was hoped that complete reports for every month from every station would be received during 1900.



CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER, 1900.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.				Sky.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.	Prevailing direction of wind.
Allendale	Barnwell	186	12																G. G. Dowling.	
Augusta, Ga.	Richmond	141	20	56.4	+2.4	80	20	31	10	34	2.52	-0.52	1.19		6	14	8	8	Weather Bureau.	
Batesburg	Lexington	656	12	55.1	+1.1	79	23	28	10	35	3.90	+1.39	1.75		8	16	6	8	E. J. Hite.	
Beaufort	Beaufort	28	14	61.8	+2.9	85	1	33	10	27	3.48	+1.23	1.71		4	18	8	4	S. M. Benton.	
Blackville	Barnwell	203	12	57.8	+2.4	84	23	29	*9	39	2.28	+0.26	0.83		6	12	17	1	G. D. C. Lange.	
Calhoun Falls	Abbeville	354	7								3.55	-0.01	1.10		6	15	0	15	P. J. Pfeiffer.	
Canden	Kershaw	222	34								4.62	+2.35	2.40		8	12	5	13	B. Ammons.	
Charleston	Charleston	48	31	59.7	+1.7	80	23	36	9	25	4.48	+1.44	4.05		8	10	15	5	Weather Bureau.	
Charlotte, N. C.	Mecklenburg	808	22	52.2	+1.2	78	23	28	9	35	3.85	+0.82	1.63		10	13	5	12	Weather Bureau.	
Cheraw (1)	Chesterfield	114	12	55.8	+3.4	84	24	25	10	39	2.93	+0.80	1.66		5	16	1	13	W. R. Godfrey.	
Cheraw (2)		108	7								3.07	+0.09	1.73		7	10	9	11	Jno. H. Powe.	
Clemson College	Oconee	850	9	53.2		77	5	24	10	42	2.33	-1.13	0.86		8	12	11	7	Prof. C. C. Newman.	
Columbia	Richland	336	13	56.4	+1.6	85	23	30	10	39	3.65	+1.31	2.03		9	11	6	13	Central Office.	
Conway	Horry	49	9								1.75	-1.22	1.20		4	13	7	10	P. Quattlebaum.	
Darlington	Darlington	175	5								2.16		1.20		5	13	15	2	E. R. Melver.	
Edisto	Bamberg	143	7																Miss Jerry Carter.	
Edlingham	Florence	106	8								3.47	+0.81	2.17		5	10	11	9	A. J. Howard.	
Florence	Florence	156	12																H. K. Gilbert.	
Gaffney	Cherokee		4								4.52		1.79		10	11	10	9	B. F. Camp.	
Georgetown	Georgetown	12	7	55.8	-0.9	86	4	32	9	34	1.50	-1.16	0.50		4	26	2	2	W. T. Turbeville.	
Gillisonville	Hampton		5	58.2	+0.6	87	24	25	10	43	1.83		1.04		4	16	5	9	Sam P. Saltus.	
Greenville	Greenville	1,000	8	51.2	+0.9	77	24	26	*10	37	4.41	+0.28	1.52	T.	8	14	3	13	Mrs. S. A. Crittenden.	
Greenwood	Greenwood	671	12	53.8	+1.5	79	20	27	9	35	3.49	+0.38	1.25		6	13	0	17	M. M. Calhoun.	
Horse Cove, N. C.	Macon	3,800	8	49.6	+4.1	72	23	18	9	37	5.94	+0.57	3.70	T.	7	14	4	12	B. C. Hawkins.	
Holland	Anderson		12	50.0	+0.2	74	6	22	9	43	4.38	+1.83	1.60		5	16	3	11	Dr. J. W. Earle.	
Kingstree (1)	Williamsburg	77	12	55.7	-0.5	81	20	27	10	39	2.18	-0.35	1.23		6	14	9	7	C. J. Lesesne.	
Kingstree (2)		77	6								2.24	-0.57	1.30		6	12	12	6	W. H. Matthews.	
Liberty	Pickens		6	52.2	+2.2	76	*5	23	10	40	3.18	+0.30	1.55		5	14	6	10	Jno. T. Boggs.	
Little Mountain	Newberry	711	7	55.3	-0.2	80	1	28	9	33	4.58	+2.06	1.88		9	12	7	11	John M. Sease, M. D.	
Longshore	Newberry	530	7	54.6	+1.9	80	23	27	10	39	3.79	+0.27	1.50		8	11	7	12	W. G. Peterson.	
Pinopolis	Berkeley		7	56.8	+2.0	77	20	33	10	42	2.83	-0.50	2.23		5	15	8	7	E. P. Ravenel.	
Raleigh, N. C.	Wake		14	53.6	+2.6	82	23	29	10	37	3.33	+1.00	1.39		8	14	6	10	Weather Bureau.	
St. Georges	Dorchester	376	109	56.8	+1.0	81	*2	30	*28	37	3.32	+1.01	1.05		1	13	9	8	W. B. Raysor.	
St. Matthews	Orangeburg	254	12	58.0	+2.5	83	24	31	10	40	2.47	+0.39	0.85		7	14	6	10	J. S. Wannamaker.	
St. Stephens	Berkeley	73	8								2.21	-0.27	0.98		7	12	8	10	C. T. Shuler.	
Santee	Union		7	54.2	+3.2	80	23	24	10	39	4.04	+0.76	3.21		7	8	12	10	E. W. Jeter.	
Savannah, Ga.	Chatham	71	31	61.0	+3.0	82	21	36	9	27	3.64	+1.24	3.06		6	11	9	10	Weather Bureau.	
Shaws Fork	Aiken	500	7	54.0	-1.4	82	*2	22	8	38	4.50	+1.55	1.60		7	13	9	8	Geo. H. Atwood.	
Smiths Mills	Williamsburg	62	5								4.04		2.67		6	13	11	6	H. van Keuren.	
Society Hill	Darlington	192	9	54.9	+2.1	79	21	29	9	27	3.09	+0.53	2.21		4	9	17	4	J. J. Lucas.	
Spartanburg	Spartanburg	875	9	51.8	0	77	23	25	10	33	5.45	+2.33	2.30		6	14	5	11	F. P. Robinson.	
Statesburg	Sumter	500	20	57.9	+3.9	84	23	31	9	31	2.51	+0.45	1.34		5	13	6	11	W. W. Anderson, M. D.	
Summerville	Dorchester		3	57.2		81	*21	30	9	42	1.99		1.40		5	18	9	3	Prof. Jno. Gadsden.	
Temperance	Marion	100	2	57.6		86	24	27	10	46	3.14		2.46		3	10	19	1	J. R. Reaves.	
Trenton (c)	Edgefield	620	7	57.9	+1.5	77	23	31	9	25	3.85	+1.10	1.60		5	10	12	6	C. A. Long.	
Trial	Berkeley		14	56.4	+0.5	92	25	25	10	43	1.76	-0.91	1.00		5	14	11	5	W. J. Anderson, M. D.	
Walhalla	Oconee	1,061	10	51.6	+2.8	78	23	25	*9	38	3.46	-0.15	2.31		9	12	8	10	Prof. Jno. Gadsden.	
Wilmington, N. C.	New Hanover	52	31	57.7	+2.7	81	23	33	10	29	3.66	+1.17	1.62		6	11	14	5	J. R. Reaves.	
Winnisboro	Fairfield	545	11	53.8	+0.2	77	24	30	*9	32	5.35	+2.49	2.00		5	14	2	2	C. A. Long.	
Winthrop College (a)	York	690	1	53.8		79	23	28	*8	36	4.63		1.81		8	12	2	15	Etsell Gaillard.	
Yemassee	Beaufort	23	5	57.8		82	2	29	10	41	2.31		1.03		5	12	11	7	S. M. Pagan.	
Yorkville	York	680	12	55.6	+2.9	83	23	30	9	36	3.53	+0.56	1.56		5	12	6	12	Weather Bureau.	
MEANS—highest, lowest and dates, etc.				55.6	+1.6	92	25	22	9	46	3.32	+0.50	4.05	T.	6	13	8	9	sw.	John W. Seigler.
																			Prof. Cleve'nd Abbe, jr.	
																			R. G. Smith.	
																			J. R. Schorb.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., and 9 and 2 p. m. observations.



### STATIONS.

[illegible]



TOTAL PRECIPITATION FOR NOVEMBER, 1900.



Scale of shades, in inches.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, NOVEMBER, 1900.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Allendale												T.							T.	.61		.01					.50						2.52
Augusta, Ga.		.10	1.19	.11															T.	.25	.60		.05				.90						3.00
Batesburg.		.05	1.75	.20	.10													T.								.24							3.48
Beaufort			1.71	1.50									.03						T.														2.28
Blackville			.77	.83	.04							T.								.10	.08		T.					.46					
Calhoun Falls			.75	.70																.20	.50		.30				1.10						3.55
Camden		.02	.72	2.40	.19							.04							T.	.42	.09					T.	.74						4.62
Charleston			T.	3.85	.20							.08	.05						T.		.02				.01	.23	.04						4.48
Charlotte, N. C		T.	1.44	1.63			.10				.01							.10	.09	T.				.01	.44	.02				.01			3.85
Cheraw(1).			.40	1.66	T.													.06	.27						.54				T.			2.93	
Cheraw(2).		T.	.31	1.73	.05				.04			T.	T.							.01	.30		T.			T.	.63			T.			3.07
Clemson College.		.77	.04						.03		T.							.23	.37		.02					.86			.01				2.33
Columbia		.05	1.98	.26				T.			T.	.06						.03	.63	.05	.11				.48								3.65
Conway				1.20	T.							.10	T.												.10	.35							1.75
Darlington, near		.05	1.20	.61														.05								.25							2.16
Edisto																																	
Effingham			2.17	.45								.05									.35				T.		.45						3.47
Florence																																	
Gaffney			.58	1.30					T.			.04						.10	.08	.36	.24					.03	1.76				.03		4.52
Georgetown			.50								.25	.50														.25							1.50
Gillisonville		.17	1.04														T.	.25				T.				.37							1.83
Greenville			1.14	.73							T.	T.						.20	.32	.20	.08				.22	1.52							4.41
Greenwood			.48	1.25															.25	.26				.10	1.15								3.49
Horse Cove, N. C.		.15	.25	.60					T.			T.					T.	.46	.20	.49	.09			.10	3.70	T.			T.	T.			5.94
Holland			1.60									.05	1.07									.16				1.50							4.38
Kingstree(1)			.25	1.23	.20				.06			T.									.08						.36						2.18
Kingstree(2)			.30	1.30	.15				.06			T.	T.							T.	.08						.35						2.24
Liberty		T.	T.	.98					T.			T.	T.						.15	.27	T.	.23				1.55				T.			3.18
Little Mountain			.08	1.80	.82							.05	.08					.15	.95	.02	T.					.63					T.		4.58
Longshore		1.16	1.50	.04					.04				T.				.14	T.	.20		.05					.66							3.79
Pinopolis			2.23	.06														.01				.01				.52							2.83
Raleigh, N. C.		T.	T.	1.39	1.37		.22				T.	.02									.01	T.	T.	.12	.13			.07					3.33
St. Georges			1.05	1.01					.06												.45					.75							3.34
St. Matthews			.80	.85	.10				.12											.10	.10					.40							2.47
St. Stephens			.05	.98	.47				.08												.08		.02				.53						2.21
Santuc.		T.	T.	1.69	1.52				T.			.02								.11	.02	T.	T.				.66			.02			4.04
Savannah, Ga.			T.	3.06	T.						.04	.01					.02	.42				T.	T.			.09							3.64
Shaws Fork		1.60	.45	.23							.02							.40	1.15							.65							4.50
Smiths Mills			.10	2.67	T.				.05											.22						.35	.65						4.04
Society Hill		T.		2.21	.44															.15						.29							3.08
Spartanburg			T.	2.30								T.							.04	.18	.75	.06											5.45
Statesburg		.34	1.04	.27							T.								.09				.03			.74							2.51
Summerville		.17	1.40	.04							T.									.19	.04				.01	.33							1.96
Temperance		T.	T.	2.46							T.															.68							3.14
Trenton		.39	1.60	.13							T.									.89							.84						3.88
Trial			.08	1.00	.30																	.08					.30						1.74
Walhalla		.10		.55																	.39	.11				2.31							3.45
Wilmington, N. C.			T.	.98	1.62	T.						.59														.14	.14						3.64
Winnsboro		.35	2.00	.45																1.55		T.				1.00							5.35
Winthrop College.		T.	.01	1.81	1.80						T.								.17	.40	.03	T.				.12	.29			T.			4.63
Yemassee			.04	1.03								.09									.45						.70						2.31
Yorkville		T.		1.56	1.14						T.								.11	.12						.60				T.			3.52

\* Precipitation included in that of the following day

T indicates trace, less than 0.01 inch.



501.05  
U7 82

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR DECEMBER, 1900.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF  
WILLIS L. MOORE,  
CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,  
SECTION DIRECTOR.

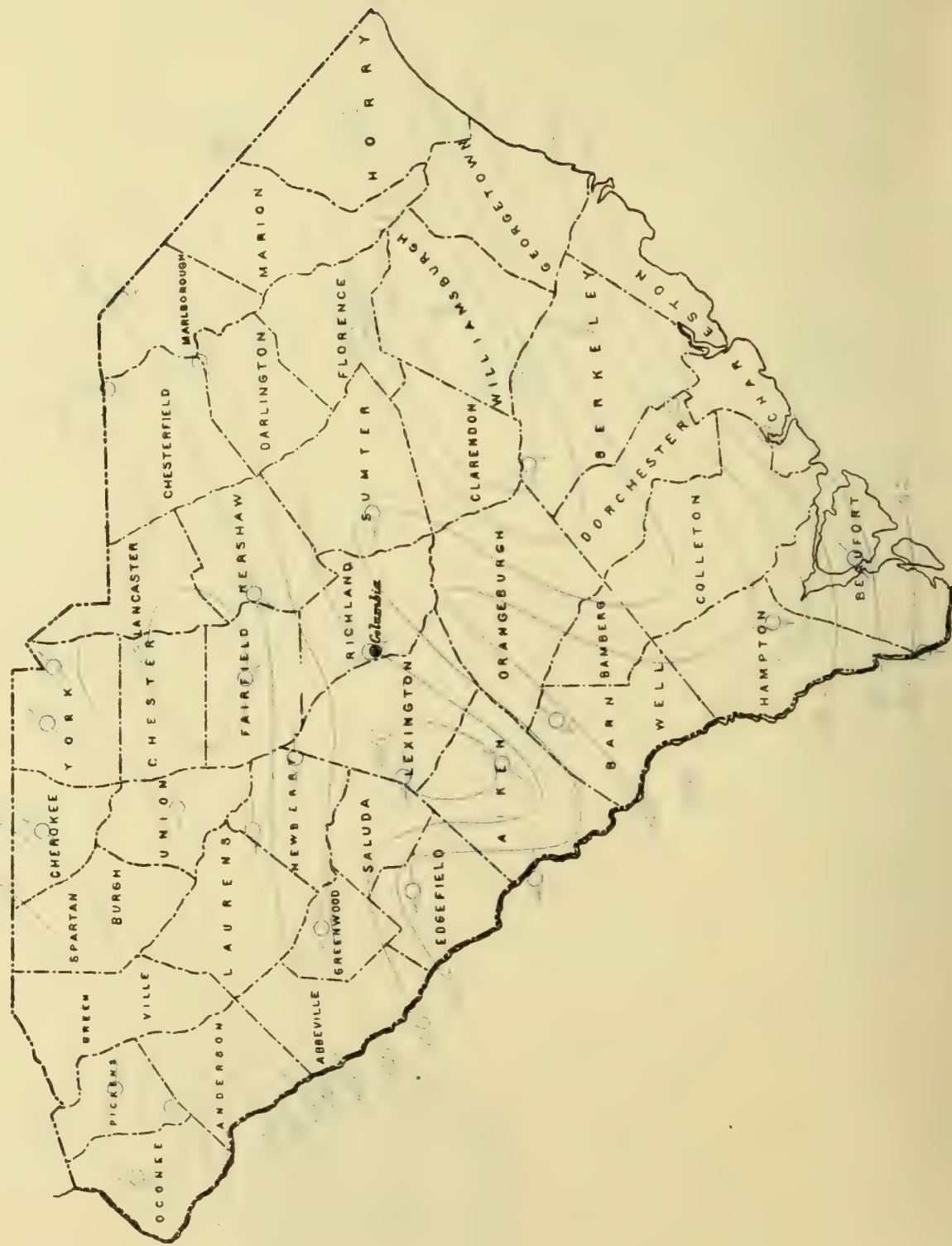


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1900.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,

COLUMBIA, S. C.

VOL. III. COLUMBIA, S. C., DECEMBER, 1900. No. 12.

WEATHER AND CROPS.

There is little activity in farm work during December of a character to be influenced by the weather, except in the truck regions of the southeastern coast section where plowing, planting and gathering vegetables continues throughout the whole year.

The even, comparatively low temperatures that prevailed, and the heavy rainfall, amounting to more than two times the normal amount, and the large number of days with bright sunshine, were conditions favorable to wheat and oats, both of which looked healthy and vigorous at the close of the month.

In the truck regions, preparation of lands and planting for early spring vegetables were actively carried on during the greater portion of the month.

The month was noteworthy for its large number of frosty mornings, few rainy days but with heavy precipitation, and more than the average duration of bright sunshine, and for its light variable winds, the combination making characteristic and pleasant winter weather.

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for December, 1900, was 45.5°, which is 1.4° below the normal. The highest local mean was 51.4° at Beaufort, and the lowest local mean was 39.4° at Holland. The highest temperature for the month was 79° at Gillisonville on the 23d; the lowest temperature for the month was 18° at Holland on the 26th, making the State range 61°. The greatest local monthly range was 55° at Gillisonville, and least local monthly range was 36° at Yorkville. The mean of the daily maximum temperatures was 55.6°, and of the daily minimum temperatures 35.4°.

Frost, First Killing.—Charleston, 16th.

Precipitation, in Inches.

The State average precipitation for December, 1900, was 5.64 inches, which is 2.86 inches above the normal, or 204

per centum of the usual amount. The greatest local amount was 8.15 inches at Effingham, and the least local amount was 3.64 inches at Batesburg. The greatest 24-hourly fall was 3.55 inches at Effingham on the 30-31st. The average number of days with rain was 8, ranging from 3 at Allendale and Holland to 11 at Camden, Columbia, Gaffney, Little Mountain, Summerville and Trial.

Excessive Precipitation.—Blackville, 30th, 2.57 in 16 hours and 30 minutes; Effingham, 30-31st, 3.55 in 24 hours; Kingstree, 20th, 2.60 in 24 hours.

Snow.—No snow was recorded during the month at any station.

Hail.—Winthrop College, 4th.

Weather.—Including the entire State, the clear days averaged 14, the partly cloudy 7, and the cloudy days 10.

Winds.—The prevailing direction of the wind was from the north at 12 stations, from the northeast at 10 stations, from the east at 7 stations, from the northwest at 6 stations, from southwest at 5 stations, from the west at 2 stations, and from the south at 1 station.

High Winds.—Beaufort, 3; Blackville, Charleston, Walhalla, 4; Gillisonville, 30.

MISCELLANEOUS PHENOMENA (with dates).

Sundog.—Trenton, 19.

Solar Halos.—Charleston, 6, 10, 12, 13, 15, 17, 22, 27; Santuc, 6, 12, 27; Shaws Fork, 17; Statesburg, 19, Walhalla, 12.

Lunar Halos.—Blackville, Little Mountain, Walhalla, 2; Charleston, 2, 5, 6, 9, 10, 27, 31; Columbia, 1, 2, 27, 31; Gillisonville, 27; Santuc, 2, 27; Shaws Fork, 29; Statesburg, 2, 3, 5, 7; Winthrop College, 1, 2, 5, 27, 28.

Thunderstorms.—Beaufort, Charleston, Columbia, Longshore, Shaws Fork, Statesburg, 23; Blackville, Gillisonville, Trial, 23, 30; Camden, 24; Little Mountain, 20; Smiths Mills, 31.

Fogs, Dense.—Beaufort, 20; Blackville, Columbia, 31; Charleston, 20, 23, 24, 30; Gillisonville, Walhalla, 30; Greenville, 22, 23, 31; Liberty, 23, 31; St. Stephens, 6; Statesburg, 23, 24, 31; Winthrop College, 24, 31.

REMARKS BY OBSERVERS.

Batesburg.—All winter crops are growing nicely.—E. J. Hite.

Yorkville.—Abnormally mild and pleasant December weather.—J. R. Schorb.

Florence.—Observations were not taken during the first 17 days as both thermometers were unserviceable.—H. K. Gilbert.



Beaufort.—The mean temperature for December was  $2.8^{\circ}$  below the normal; total precipitation was 1.50 inches above.—S. M. Benton.

Summerville.—Ice formed on the 1st, 14th, 15th, 16th, 17th, 25th and 26th. The average per centum of relative humidity was 80.—Prof. John Gadsden.

Clemson College.—On account of an error made by an acting voluntary observer, the observations from the 24th to the 31st are omitted.—Prof. C. C. Newman.

Liberty.—The month was noteworthy for the number of hoar frosts. Small grain crops look well. More plowing was accomplished during the month than usual.—John T. Boggs.

Gillisonville.—Month moderately cold, with rains at such intervals and in such amounts as to make them favorable to grain crops which at present have a healthy outlook.—Sam P. Saltus.

Trenton.—The precipitation was 2.86 inches more than the 8-year average for December, and is five inches less than the 7-year average for the 12 months of the year. Small grain is doing well.—C. A. Long.

Santuc.—The month was noteworthy for the number of white frosts on consecutive days; most of them were not followed immediately by rain, as usual. Nearly every rain for the month began at night and after midnight.—E. W. Jeter.

Winthrop College.—The corona of the 1st was of strikingly pure and brilliant colors; violet clearly defined, although faint on outer border. The storm of 3d-4th cleared off with a heavy black cloud from which a small quantity of fine hail was observed falling.—Dr. Cleveland Abbe, Jr.

#### NOTES AND COMMENTS

The voluntary observers' necrology is a blank for the year 1900.

No voluntary observers stations were closed during the year, and since January but one new station has been opened—McColl, in Marlboro county—whose first regular report appears in this issue.

Calhoun Falls and Georgetown reports were received too late to be used in the means and summary for December.

No reports have been received from Temperance and Yemassee, which accounts for the omission of the data for those stations.

On January 1, 1901, the centigrade thermometer scale was adopted as the official standard of the German empire, discontinuing entirely the use of the Reaumer scale. It is probable that the latter will gradually fall into complete disuse, and that eventually the centigrade scale will also supersede the Fahrenheit wherever the latter is now being used.

The inquiry is frequently made whether it is necessary to keep a record of the occurrence of frost during the winter months. While it is not likely that frosts do much, if any, injury to crops cultivated in South Carolina, especially winter wheat and oats, during December, January and February, except possibly in the extreme southeastern portion of the State where truck farms raising winter vegetables are located, yet as it requires so little time to note the occurrence of frost on Form 1009, voluntary observers are advised to do so, particularly after February 1st. It is better to have too much than too little data. The former can be neglected, the latter can never be supplied.

The opening of the 20th century ought to mark the beginning of important discoveries in meteorology. The civilized world is dotted with meteorological stations, many of them equipped with all the latest and best forms of instruments for recording the principal meteorological phenomena, leaving but little to the personal acuteness and alertness of the individual observer, and thus eliminating fruitful sources of errors both of omission and of judgment.

There is, in the United States, a small army of intelligent observers, regular and voluntary, constantly watchful to observe and to record the slightest variation in the weather. Their records, added to what is already at hand, will establish the climatic features of this country in their minutest detail.

Rapid progress ought now be made in the science of meteorology. There are records for comparison, data for study, and minds for both. Systematic research joined to constant observation, by men fitted by education, training and experience for this work, ought, before the new century is far advanced, to increase our knowledge of the laws that not only govern but create storms, and that control the visitations of heat-waves, cold-waves, droughts and floods. Afterwards the practical application of this knowledge to making forecasts of the weather for months and even seasons will follow.

#### ERRATA.

November report, on page 5, Little Mountain, mean temperature  $55.3^{\circ}$ , should be  $55.4^{\circ}$ . Same page, Society Hill, mean temperature  $54.9^{\circ}$ , should be  $54.7^{\circ}$ .



## CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER, 1900.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall. (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.				
Allendale	Barnwell	186	12	48.3	.....	59	*16	38	1	15	2.98	+0.94	1.12	•	3	21	•	10	.....	G. G. Dowling.		
Angusta, Ga.	Richmond	134	29	46.9	—1.0	66	23	29	16	30	6.75	+3.33	2.41	•	10	14	9	8	ne.	Weather Bureau.		
Batesburg	Lexington	656	12	45.4	.....	65	*24	25	16	30	3.64	.....	1.20	•	6	19	1	11	e.	E. J. Hite.		
Beaufort	Beaufort	28	14	51.4	—2.8	70	23	31	18	31	4.06	+1.50	0.89	•	9	14	9	8	ne.	S. M. Benton.		
Blackville	Barnwell	293	12	46.8	—0.1	70	23	27	18	35	8.00	+5.02	2.57	•	9	15	10	6	ne.	G. D. C. Lange.		
Calhoun Falls	Abbeville	354	7	.....	.....	.....	.....	.....	.....	.....	5.55	+2.17	2.42	•	8	19	0	12	ne.	P. J. Pfeiffer.		
Camden	Kershaw	222	34	.....	.....	.....	.....	.....	.....	.....	6.03	+3.05	1.50	•	11	14	6	11	ne.	B. Ammons.		
Charleston	Charleston	48	31	50.8	—1.2	70	4	33	16	22	4.65	+1.42	1.59	•	10	7	13	11	n.	Weather Bureau.		
Charlotte, N. C.	Mecklenburg	808	22	42.6	+0.6	62	23	25	15	28	4.33	+0.56	1.52	•	9	15	6	10	ne.	Weather Bureau.		
Cheraw (1)	Chesterfield	114	12	43.8	—1.0	72	23	22	*16	35	6.10	+3.83	1.90	•	8	15	7	9	n.	W. R. Godfrey.		
Cheraw (2)	.....	108	7	.....	.....	.....	.....	.....	.....	.....	5.81	+3.02	1.88	•	9	14	6	11	n.	Jno. H. Powe.		
Clemson College(h)	Oconee	850	9	43.7	.....	63	2	22	*12	38	3.99	+0.50	1.14	•	7	8	10	5	e.	Prof. C. C. Newman.		
Columbia	Richland	336	13	46.2	—2.3	70	23	27	16	33	6.17	+3.23	2.01	•	11	12	9	10	nw.	Central Office.		
Conway	Horry	49	9	.....	.....	.....	.....	.....	.....	.....	6.55	+4.35	1.65	•	9	13	4	14	n.	P. Quattlebaum.		
Darlington	Darlington	175	5	.....	.....	.....	.....	.....	.....	.....	6.14	.....	2.00	•	10	14	8	9	.....	E. R. McIver.		
Edisto	Bamberg	143	7	.....	.....	.....	.....	.....	.....	.....	8.15	+5.38	3.55	•	6	14	7	10	ne.	Miss Jerry Carter.		
Effingham	Florence	106	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	•	.....	.....	.....	.....	.....	A. J. Howard.		
Florence (q)	Florence	156	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	•	.....	.....	.....	.....	.....	H. K. Gilbert.		
Gaffney	Cherokee	.....	4	46.2	—3.3	66	7	26	19	32	5.09	.....	2.02	•	11	12	8	11	sw.	B. F. Camp.		
Georgetown	Georgetown	12	7	.....	.....	.....	.....	.....	.....	.....	5.70	+2.49	.....	•	.....	25	0	6	ne.	W. T. Turbeville.		
Gillisonville	Hampton	5	47.4	—1.3	79	23	24	18	37	7.65	.....	1.80	.....	•	8	13	5	13	n.	Sam P. Salsus.		
Greenville	Greenville	1,000	8	41.5	—0.4	69	19	23	16	44	3.68	+0.67	1.38	•	8	17	1	13	.....	Mrs. S. A. Crittenden.		
Greenwood	Greenwood	671	12	44.3	.....	65	24	29	16	29	5.69	.....	1.75	•	7	16	2	13	e.	M. M. Calhoun.		
Horse Cove, N. C.	Macon	3,800	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	•	.....	.....	.....	.....	.....	B. C. Hawkins.		
Holland	Anderson	.....	12	39.4	—5.5	62	6	18	26	39	4.24	+1.08	1.95	•	3	17	0	14	.....	Dr. J. W. Earle.		
Kingstree (1)	Williamsburg	77	12	44.0	—4.0	67	4	25	17	32	7.17	+4.69	2.00	•	7	19	0	12	n.	C. J. Leseane.		
Kingstree (2)	.....	77	6	.....	.....	.....	.....	.....	.....	.....	7.80	+5.08	2.60	•	6	14	4	13	n.	W. H. Matthews.		
Liberty	Pickens	.....	6	42.4	—0.3	64	9	21	12	40	4.51	.....	1.55	•	6	15	8	8	w.	Jno. T. Boggs.		
Little Mountain	Newberry	711	7	45.6	—2.0	66	23	28	16	30	4.93	+2.31	1.40	•	11	13	11	7	e.	John M. Sease, M. D.		
Longshore	Newberry	530	7	44.0	—3.5	66	23	25	*11	33	4.96	+2.02	1.67	•	8	13	8	10	e.	N. G. Peterson.		
McColl (b)	Mariboro	.....	.....	44.6	.....	67	4	23	16	35	5.41	.....	2.05	•	9	22	3	6	nw.	W. L. Thayer.		
Pinopolis	Berkeley	.....	7	47.8	—0.1	68	4	30	*16	.....	5.72	+2.55	1.66	•	8	7	9	15	nw.	E. P. Ravenel.		
Raleigh, N. C.	Wake	376	14	42.7	—1.3	70	23	21	17	29	3.75	+0.98	1.31	•	9	14	8	10	n.	Weather Bureau.		
St. Georges	Dorchester	109	12	46.6	—1.3	71	24	27	19	30	7.24	+4.17	2.40	•	8	13	7	11	.....	W. B. Raynor.		
St. Matthews	Orangeburg	254	12	48.0	.....	78	4	28	*16	36	6.37	.....	2.10	•	8	14	4	13	.....	J. S. Wannamaker.		
St. Stephens	Berkeley	73	8	.....	.....	.....	.....	.....	.....	.....	7.89	+5.01	1.70	•	9	8	7	16	n.	C. T. Shuler.		
Santuc	Union	512	7	43.2	—0.4	66	*23	21	*12	34	4.05	+1.03	1.56	•	8	12	9	10	w.	E. W. Jeter.		
Savannah, Ga.	Chatham	71	31	52.2	+0.2	74	23	33	16	24	3.54	+0.32	0.98	•	9	8	10	13	n.	Weather Bureau.		
Shaws Fork	Aiken	500	7	44.7	—4.3	72	1	22	*5	37	6.87	+4.59	2.12	•	8	16	8	7	sw.	Geo. H. Atwood.		
Smiths Mills	Williamsburg	62	5	.....	.....	.....	.....	.....	.....	.....	7.14	.....	1.73	•	8	13	5	13	n.	H. van Keuren.		
Society Hill	Darlington	192	9	44.9	—1.2	68	23	25	17	26	6.25	+3.81	2.10	•	7	14	8	9	ne.	J. J. Lucas.		
Spartanburg	Spartanburg	875	9	42.0	—2.5	66	5	24	12	31	4.45	+2.08	1.50	•	8	17	0	14	.....	F. P. Robinson.		
Statesburg	Sauiter	500	20	47.0	—0.7	70	23	27	16	28	6.95	+4.17	2.25	•	10	8	10	13	e.	W. W. Anderson, M. D.		
Summerville	Dorchester	.....	3	48.8	.....	72	23	27	17	32	6.53	.....	1.71	•	11	13	9	9	ne.	Prof. Jno. Gadsden.		
Temperance	Marion	100	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	•	.....	.....	.....	.....	.....	J. R. Reeves.		
Trenton	Edgefield	620	7	47.8	—0.8	63	23	32	*15	24	6.18	+3.27	1.98	•	9	8	17	6	e.	C. A. Long.		
Trial	Berkeley	.....	14	44.7	—4.5	72	23	22	*17	38	7.55	+4.79	1.67	•	11	18	6	7	nw.	Etsell Gaillard.		
Walhalla	Oconee	1,061	10	42.8	—2.4	65	9	21	11	39	4.04	+1.32	1.65	•	8	16	6	9	sw.	S. M. Pagan.		
Wilmington, N. C.	New Hanover	52	31	47.0	—1.0	72	4	23	17	30	5.69	+2.64	1.64	•	9	11	9	11	n.	Weather Bureau.		
Winnsboro	Fairfield	545	11	42.8	—5.0	63	24	26	16	21	5.34	+2.94	2.00	•	.....	25	4	2	nw.	John W. Seigler.		
Winthrop College	York	690	1	43.2	.....	64	24	25	12	29	4.93	.....	1.98	•	9	13	7	11	sw.	Prof. Cleve'nd Abbe, jr.		
Yemassee	Beaufort	23	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	•	.....	.....	.....	.....	.....	R. G. Smith.		
Yorkville	York	680	12	45.8	—0.5	65	24	29	*12	29	4.56	+1.74	1.61	•	7	14	6	11	sw.	J. R. Schorb.		
MEANS—highest, lowest and dates, etc.				.....	.....	45.5	—1.4	79	23	18	26	44	5.64	+2.86	3.55	•	8	14	7	10	n.	.....
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† Mean from 7 a. m., and 9 and 2 p. m. observations.

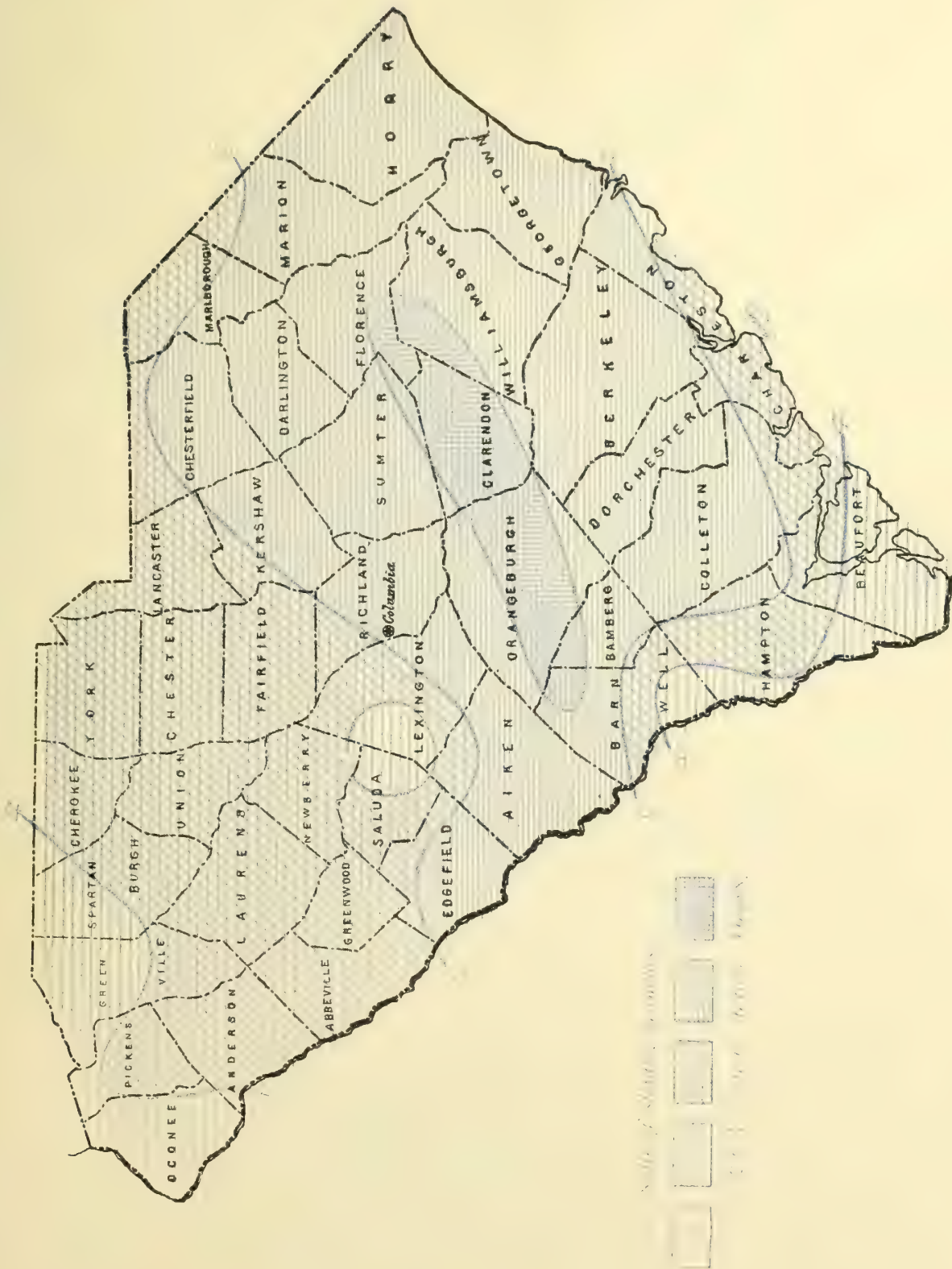


### STATIONS.

STATIONS.																															Monthly mean.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Max.	Min.
47.38	49.61	48.39	49.38	50.37	51.36	52.35	53.34	54.33	55.32	56.31	57.30	58.29	59.28	60.27	61.26	62.25	63.24	64.23	65.22	66.21	67.20	68.19	69.18	70.17	71.16	72.15	73.14	74.13	75.12	76.11	77.10	78.09
48.39	50.41	49.38	50.37	51.36	52.35	53.34	54.33	55.32	56.31	57.30	58.29	59.28	60.27	61.26	62.25	63.24	64.23	65.22	66.21	67.20	68.19	69.18	70.17	71.16	72.15	73.14	74.13	75.12	76.11	77.10	78.09	79.08
49.38	51.40	50.37	51.36	52.35	53.34	54.33	55.32	56.31	57.30	58.29	59.28	60.27	61.26	62.25	63.24	64.23	65.22	66.21	67.20	68.19	69.18	70.17	71.16	72.15	73.14	74.13	75.12	76.11	77.10	78.09	79.08	80.07
50.37	52.39	51.36	52.35	53.34	54.33	55.32	56.31	57.30	58.29	59.28	60.27	61.26	62.25	63.24	64.23	65.22	66.21	67.20	68.19	69.18	70.17	71.16	72.15	73.14	74.13	75.12	76.11	77.10	78.09	79.08	80.07	81.06
51.36	53.38	52.35	53.37	54.36	55.35	56.34	57.33	58.32	59.31	60.30	61.29	62.28	63.27	64.26	65.25	66.24	67.23	68.22	69.21	70.20	71.19	72.18	73.17	74.16	75.15	76.14	77.13	78.12	79.11	80.10	81.09	82.08
52.35	54.37	53.34	54.36	55.35	56.34	57.33	58.32	59.31	60.30	61.29	62.28	63.27	64.26	65.25	66.24	67.23	68.22	69.21	70.20	71.19	72.18	73.17	74.16	75.15	76.14	77.13	78.12	79.11	80.10	81.09	82.08	83.07
53.34	55.36	54.33	55.38	56.37	57.36	58.35	59.34	60.33	61.32	62.31	63.30	64.29	65.28	66.27	67.26	68.25	69.24	70.23	71.22	72.21	73.20	74.19	75.18	76.17	77.16	78.15	79.14	80.13	81.12	82.11	83.10	84.09
54.33	56.35	55.32	56.38	57.37	58.36	59.35	60.34	61.33	62.32	63.31	64.30	65.29	66.28	67.27	68.26	69.25	70.24	71.23	72.22	73.21	74.20	75.19	76.18	77.17	78.16	79.15	80.14	81.13	82.12	83.11	84.10	85.09
55.32	57.34	56.31	57.38	58.37	59.36	60.35	61.34	62.33	63.32	64.31	65.30	66.29	67.28	68.27	69.26	70.25	71.24	72.23	73.22	74.21	75.20	76.19	77.18	78.17	79.16	80.15	81.14	82.13	83.12	84.11	85.10	86.09
56.31	58.33	57.30	58.39	59.38	60.37	61.36	62.35	63.34	64.33	65.32	66.31	67.30	68.29	69.28	70.27	71.26	72.25	73.24	74.23	75.22	76.21	77.20	78.19	79.18	80.17	81.16	82.15	83.14	84.13	85.12	86.11	87.10
57.30	59.32	58.29	59.38	60.37	61.36	62.35	63.34	64.33	65.32	66.31	67.30	68.29	69.28	70.27	71.26	72.25	73.24	74.23	75.22	76.21	77.20	78.19	79.18	80.17	81.16	82.15	83.14	84.13	85.12	86.11	87.10	88.09
58.29	60.31	59.28	60.38	61.37	62.36	63.35	64.34	65.33	66.32	67.31	68.30	69.29	70.28	71.27	72.26	73.25	74.24	75.23	76.22	77.21	78.20	79.19	80.18	81.17	82.16	83.15	84.14	85.13	86.12	87.11	88.10	89.09
59.28	61.30	60.27	61.38	62.37	63.36	64.35	65.34	66.33	67.32	68.31	69.30	70.29	71.28	72.27	73.26	74.25	75.24	76.23	77.22	78.21	79.20	80.19	81.18	82.17	83.16	84.15	85.14	86.13	87.12	88.11	89.10	90.09
60.27	62.29	61.26	62.39	63.38	64.37	65.36	66.35	67.34	68.33	69.32	70.31	71.30	72.29	73.28	74.27	75.26	76.25	77.24	78.23	79.22	80.21	81.20	82.19	83.18	84.17	85.16	86.15	87.14	88.13	89.12	90.11	91.10
61.26	63.28	62.25	63.39	64.38	65.37	66.36	67.35	68.34	69.33	70.32	71.31	72.30	73.29	74.28	75.27	76.26	77.25	78.24	79.23	80.22	81.21	82.20	83.19	84.18	85.17	86.16	87.15	88.14	89.13	90.12	91.11	92.10
62.25	64.27	63.24	64.39	65.38	66.37	67.36	68.35	69.34	70.33	71.32	72.31	73.30	74.29	75.28	76.27	77.26	78.25	79.24	80.23	81.22	82.21	83.20	84.19	85.18	86.17	87.16	88.15	89.14	90.13	91.12	92.11	93.10
63.24	65.26	64.23	65.40	66.39	67.38	68.37	69.36	70.35	71.34	72.33	73.32	74.31	75.30	76.29	77.28	78.27	79.26	80.25	81.24	82.23	83.22	84.21	85.20	86.19	87.18	88.17	89.16	90.15	91.14	92.13	93.12	94.11
64.23	66.25	65.22	66.42	67.41	68.40	69.39	70.38	71.37	72.36	73.35	74.34	75.33	76.32	77.31	78.30	79.29	80.28	81.27	82.26	83.25	84.24	85.23	86.22	87.21	88.20	89.19	90.18	91.17	92.16	93.15	94.14	95.13
65.22	67.26	66.23	67.45	68.44	69.43	70.42	71.41	72.40	73.39	74.38	75.37	76.36	77.35	78.34	79.33	80.32	81.31	82.30	83.29	84.28	85.27	86.26	87.25	88.24	89.23	90.22	91.21	92.20	93.19	94.18	95.17	96.16
66.21	68.25	67.22	68.46	69.45	70.44	71.43	72.42	73.41	74.40	75.39	76.38	77.37	78.36	79.35	80.34	81.33	82.32	83.31	84.30	85.29	86.28	87.27	88.26	89.25	90.24	91.23	92.22	93.21	94.20	95.19	96.18	97.17
67.20	69.24	68.21	69.49	70.48	71.47	72.46	73.45	74.44	75.43	76.42	77.41	78.40	79.39	80.38	81.37	82.36	83.35	84.34	85.33	86.32	87.31	88.30	89.29	90.28	91.27	92.26	93.25	94.24	95.23	96.22	97.21	98.20
68.19	70.23	69.18	70.52	71.51	72.50	73.49	74.48	75.47	76.46	77.45	78.44	79.43	80.42	81.41	82.40	83.39	84.38	85.37	86.36	87.35	88.34	89.33	90.32	91.31	92.30	93.29	94.28	95.27	96.26	97.25	98.24	99.23
69.18	71.22	70.17	71.55	72.54	73.53	74.52	75.51	76.50	77.49	78.48	79.47	80.46	81.45	82.44	83.43	84.42	85.41	86.40	87.39	88.38	89.37	90.36	91.35	92.34	93.33	94.32	95.31	96.30	97.29	98.28	99.27	100.26
70.17	72.21	71.16	72.58	73.57	74.56	75.55	76.54	77.53	78.52	79.51	80.50	81.49	82.48	83.47	84.46	85.45	86.44	87.43	88.42	89.41	90.40	91.39	92.38	93.37	94.36	95.35	96.34	97.33	98.32	99.31	100.30	101.29
71.16	73.20	72.15	73.61	74.60	75.59	76.58	77.57	78.56	79.55	80.54	81.53	82.52	83.51	84.50	85.49	86.48	87.47	88.46	89.45	90.44	91.43	92.42	93.41	94.40	95.39	96.38	97.37	98.36	99.35	100.34	101.33	102.32
72.15	74.19	73.14	74.64	75.63	76.62	77.61	78.60	79.59	80.58	81.57	82.56	83.55	84.54	85.53	86.52	87.51	88.50	89.49	90.48	91.47	92.46	93.45	94.44	95.43	96.42	97.41	98.40	99.39	100.38	101.37	102.36	103.35
73.14	75.18	74.13	75.67	76.66	77.65	78.64	79.63	80.62	81.61	82.60	83.59	84.58	85.57	86.56	87.55	88.54	89.53	90.52	91.51	92.50	93.49	94.48	95.47	96.46	97.45	98.44	99.43	100.42	101.41	102.40	103.39	104.38
74.13	76.17	75.12	76.70	77.69	78.68	79.67	80.66	81.65	82.64	83.63	84.62	85.61	86.60	87.59	88.58	89.57	90.56	91.55	92.54	93.53	94.52	95.51	96.50	97.49	98.48	99.47	100.46	101.45	102.44	103.43	104.42	105.41
75.12	77.16	76.11	77.73	78.72	79.71	80.70	81.69	82.68	83.67	84.66	85.65	86.64	87.63	88.62	89.61	90.60	91.59	92.58	93.57	94.56	95.55	96.54	97.53	98.52	99.51	100.50	101.49	102.48	103.47	104.46	105.45	106.44
76.11	78.15	77.10	78.76	79.75	80.74	81.73	82.72	83.71	84.70	85.69	86.68	87.67	88.66	89.65	90.64	91.63	92.62	93.61	94.60	95.59	96.58	97.57	98.56	99.55	100.54	101.53	102.52	103.51	104.50	105.49	106.48	107.47
77.10	79.14	78.09	79.78	80.77	81.76	82.75	83.74	84.73	85.72	86.71	87.70	88.69	89.68	90.67	91.66	92.65	93.64	94.63	95.62	96.61	97.60	98.59	99.58	100.57	101.56	102.55	103.54	104.53	105.52	106.51	107.50	108.49
78.09	80.13	79.08	80.81	81.80	82.79	83.78	84.77	85.76	86.75	87.74	88.73	89.72	90.71	91.70	92.69	93.68	94.67	95.66	96.65	97.64	98.63	99.62	100.61	101.60	102.59	103.58	104.57	105.56	106.55	107.54	108.53	109.52
79.08	81.12	80.07	81.84	82.83	83.82	84.81	85.80	86.79	87.78	88.77	89.76	90.75	91.74	92.73	93.72	94.71	95.70	96.69	97.68	98.67	99.66	100.65	101.64	102.63	103.62	104.61	105.60	106.59	107.58	108.57	109.56	110.55
80.07	82.11	81.06	82.87	83.86	84.85	85.84	86.83	87.82	88.81	89.80	90.79	91.78	92.77	93.76	94.75	95.74	96.73	97.72	98.71	99.70	100.69	101.68	102.67	103.66	104.65	105.64	106.63	107.62	108.61	109.60	110.59	111.58
81.06	83.10	82.05	83.89	84.88	85.87	86.86	87.85	88.84	89.83	90.82	91.81	92.80	93.79	94.78	95.77	96.76	97.75	98.74	99.73	100.72	101.71	102.70	103.69	104.68	105.67	106.66	107.65	108.64	109.63	110.62	111.61	112.60
82.05	84.14	83.09	84.92	85.91	86.90	87.89	88.88	89.87	90.86	91.85	92.84	93.83	94.82	95.81	96.80	97.79	98.78	99.77	100.76	101.75	102.74	103.73	104.72	105.71	106.70	107.69	108.68	109.67	110.66	111.65	112.64	113.63



TOTAL PRECIPITATION FOR DECEMBER, 1900.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1900.

STATIONS.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Allendale														.90						1.12										.96	2.98	
Augusta, Ga.			.26	1.13									.07	1.54						1.18	.03		.04					.02	T.	2.41	.07	6.75
Batesburg				1.00										.40						.40	.49									.15	1.20	3.64
Beaufort	T.		.68										.10	.65						.83	.02		.19	T.				.21	.89	.49	4.06	
Blackville			T.	1.42	T.									1.46	.07					.51	.76			.27					.04	.70	2.57	8.00
Calhoun Falls				2.05	.37									.98						.35	.60									.48	.72	5.55
Camden				.98	.60									.51	.06					.46	1.50		.19				.02	.04	.28	1.39	6.03	
Charleston			.41	.43			T.						.01	.65					1.59	.01		.32	T.				.10	T.	1.00	.13	4.65	
Charlotte, N. C.			.45	1.52			T.						.02						.64	.87		.02					.02		.68	.11	4.33	
Cheraw(1)			1.90										.27						.51	1.30		.50				T.	.02	.30	1.30		6.10	
Cheraw(2)				1.88	T.									.19	.11				.43	1.29	T.		.24				T.	.03	.24	1.40	5.81	
Clemson College			.76	.86			T.						.03						1.14	.06		.21							.86		3.99	
Columbia			.38	.83									.02	.84					1.36	.43		.07	.15				.07		1.93	.09	6.17	
Conway			.40	1.40										.70	.40				1.00	.75		.25							.25	1.40	6.55	
Darlington, near			2.00										.60	.20					.60	1.00		.28				.01	.02	.50	1.00		6.14	
Edisto																																
Effingham				2.00										1.10					.75	.75										2.05	1.50	8.15
Florence																			.52	.89	.02		.18						.25	1.35		
Gaffney				2.02	.06			.01						.06					.38	1.66		.06	.04				.02			.23	.55	5.09
Georgetown				1.50										.50								1.00	1.50							1.10	1.10	5.70
Gillisonville			.39	T.									.18	1.68					1.20			.80					.17		1.80	.43	7.65	
Greenville			* 1.38	.03										T.					.47	.65		.10	.18				T.		.22	.65	3.68	
Greenwood			1.75										*	.97					1.47								.20	.40	.90		5.69	
Horse Cove, N. C.																																
Holland				1.95																			1.15							1.14		4.24
Kingstree(1)				.40										2.00					1.88	.34			.30						.50	1.75	7.17	
Kingstree(2)				1.35										.85					.75	2.60									.50	1.75	7.80	
Liberty			.50	1.00			T.						T.						.26	1.00		.40					T.	T.	1.35		4.51	
Little Mountain			.25	1.15									.07	.70					.82	.48		.02					.07	*	1.34	.03	4.93	
Longshore			1.67	T.									.86						.77	.42		.02					.08	.30	.84		4.96	
McColl			.04	2.05										.37					.79	.49			.12				.02		.85	.68	5.41	
Pinopolis			1.66										1.50	.15					.45			.15						.51	1.27	.03	5.72	
Raleigh, N. C.			.08	1.31										.53	.74				.53	.74		.01	.01				.02		.83	.22	3.75	
St. Georges				1.60										2.40	.08				.60	.75		.06							.50	1.25	7.24	
St. Matthews				2.10										1.20	.10				.30	.90		.10							.25	1.42	6.37	
St. Stephens				1.70										1.32	.33				1.08	.75		.29						.04	.93	1.45	7.89	
Santuc			.46	.54										.40					.55	1.01		T.	.29				.07		.92	.10	4.05	
Savannah, Ga.			.54	.01									.17	.62					.58	T.		.26	T.				.24	T.	.98	.14	3.54	
Shaws Fork			* 1.10									*	1.16						1.95			.10				T.			2.12		6.87	
Smiths Mills				1.58	T.									1.63	.10				.90	.95			.18						.55	1.25	7.14	
Society Hill			2.10	*									.45						.55	1.41		.11				T.		.52	1.11		6.25	
Spartanburg			* 1.89	.36									*	1.02					.48	1.45		.04	.10						.31	.52	4.45	
Statesburg			1.89										.07	1.02					1.29	.05		.27	.01				.01		1.98		6.95	
Summerville			1.71										.84	.25					.87	.65		.03	.25				.03	.72	1.12	.06	6.53	
Temperance																																
Trenton			1.50	.48									.10	1.20					.80			.07					.06		1.75	.22	6.18	
Trial			1.67	.05								*	1.30					*	*	1.35	.08	.42					.08	*	2.60		7.55	
Walhalla			*	1.65				.02										*	1.05		*	.45				T.			.87		4.04	
Wilmington, N. C.				1.64			T.	T.						.59					.56	.03		.09	1.04				.01		1.41	.32	5.69	
Winnsboro			2.00																1.92										1.42		5.34	
Winthrop College			*	1.84										.23					.64	1.34		.02					.03		.68	.15	4.93	
Yemassee																																
Yorkville			.38	1.61										.13					.55	1.02		T.					T.		.64	.23	4.56	

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR JANUARY, 1901.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JANUARY, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., JANUARY, 1901.

No. 1.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for the month of January, 1901, was  $45.1^{\circ}$ , which is  $0.5^{\circ}$  above the normal. The highest local mean was  $50.8^{\circ}$  at Beaufort, and the lowest local mean was  $40.4^{\circ}$  at Spartanburg. The highest temperature for the month was  $81^{\circ}$  at Trial on the 10th, and the lowest was  $18^{\circ}$  at Liberty on the 26th, making the State range  $63^{\circ}$ . The greatest local monthly range was  $60^{\circ}$  at Trial, and the least monthly local range was  $39^{\circ}$  at Georgetown. The mean of the daily maximum temperatures was  $55.3^{\circ}$ , and of the daily minimum temperatures was  $34.9^{\circ}$ .

## Precipitation, in Inches.

The average precipitation for January, 1901, was 3.55 inches, which is 0.10 below the normal. The greatest local monthly amount was 5.60 inches at Liberty, and the least local monthly amount was 1.20 inches at Pinopolis. The greatest 24-hourly fall was 2.92 inches at Liberty on the 10th. The average number of days with rain was 9, ranging from 4 at Winnsboro to 13 at Calhoun Falls and Longshore.

Excessive Precipitation.—Clemson College, 10-11th, 3.92 in 31 hours; Greenville, 10-11th, 3.72 in about 32 hours; Liberty, 10-11th, 4.17 in 36 hours; Temperance, 1-2d, 2.90 in 33 hours; Walhalla, 10-11th, 4.32 in about 36 hours.

Snow.—Trace of snow fell on the 3d at McColl; on the 17th at Effingham, Florence, Little Mountain, Smith's Mills and Temperance; on the 18th at Society Hill; on the 26th at Santuc, and on the 27th at Walhalla. No measureable amount of snow fell during the month.

Hail.—On the 27th hail fell at Cheraw, Darlington, Effingham, Florence and McColl.

Sleet.—On the 17th at Effingham; on the 27th at Longshore, and on the 29th at Spartanburg and Walhalla.

Weather.—Average number of clear days in January 14, partly cloudy days 7, cloudy days 10.

Winds.—The prevailing direction of the wind was from the north and northwest at 11 stations each, from the west at 9

stations, from the southwest at 7 stations, from the northeast at 4 stations, from the east at 3 stations, and from the south at 1 station.

High Winds.—Beaufort, Charleston, Florence and Statesburg, 25; Blackville, 27; Columbia, 24, 25; Gillisonville, Liberty and Longshore, 25, 27, 28; Shaw's Fork, 18, 27; Walhalla, 11, 17, 18, 19, 24, 25, 27; Yorkville, 26.

## DR. J. W. EARLE.

Dr. J. W. Earle, voluntary observer at Holland, Anderson County, died on February 1, 1901, aged 73 years. His death was caused by pneumonia after an illness of eleven days. Dr. Earle began his connection with the Weather Bureau as a voluntary observer and climate and crop correspondent in 1888, at Evergreen, Anderson County, and continued to act in both capacities up to the time of his last sickness.

His weekly reports as a climate and crop correspondent were models. His habits of close observation, and his long experience and keen, discriminating judgment associated with a condition of mind free from bias and prejudice, enabled him to state conditions with comprehensive fullness and at the same time with appropriate brevity, while his deductions and conclusions were marked by almost unfailing accuracy.

Dr. Earle's personality was pleasing and attractive, and his death is a loss to both the community in which he lived and to this service.

## CLIMATE AND CROPS.

During January, 1901, both the temperature and precipitation approximated their respective normals in South Carolina. At exactly half the number of reporting stations for which normals have been deduced, the mean temperature averaged above their normals, and this irrespective of the location of the station. There were neither severe cold nor unusually warm periods, but the temperature variations were moderate and gradual. There were a few ground freezes with thin ice formation, but there was little or no "heaving" of wheat and oats lands.

The precipitation was unusually well distributed both geographically over the State and throughout the month, there having been four general rainy periods and two additional showery ones. Fourteen stations for which normals are available had amounts slightly in excess of their normals, and seventeen had amounts below their normals. Over the extreme western portion only was there excessive precipitation, and there were slight deficiencies over portions of the east central and north border counties. The nature of the rains were such that the greater portion of the rainfall was absorbed as it fell and conserved by the soil. Flurries of snow were observed at a few points and on several dates, but the snow melted as it fell.

The ground was generally too wet to plow, and little or no spring oats were sown. Wheat and oats were not injured by the weather, and were in good condition at the close of the



month. Some country roads became almost impassable for loaded vehicles, but as a rule roads were in fairly good condition.

#### MISCELLANEOUS PHENOMENA (with dates).

Lunar Corona.—Columbia, 28, 31; Walhalla, 28.

Lunar Halos.—Gillisonville, 31; Statesburg, 23.

Solar Halos.—Charleston, 7, 12, 21, 26; Santuc, 7, 15; Statesburg, 7, 26.

Thunderstorms.—Cheraw, Darlington, Effingham, Florence, McColl, Smith's Mills, Society Hill, Statesburg and Temperance, 27; Gillisonville, 30; Longshore, 9.

Fogs, Dense.—Beaufort, Blackville, Camden, Charleston, Cheraw, Conway and Yorkville, 10; Clemson College, Walhalla, 22; Columbia, 10, 14; Liberty, 10, 22, 24, 31; Little Mountain, 1, 23; McColl, 8, 9, 24, 30.

#### EDITORIAL NOTES.

Full or partial reports were received from all stations for January except Allendale, from which point no report was received.

The recent death of Dr. J. W. Earle, voluntary observer at Holland, will not necessitate closing that station, as Mrs. J. Hanks has very kindly offered to continue the observations at that place, and her generous offer has been gladly accepted.

The local Weather Bureau office at Columbia has been removed from the Federal building to the new City Hall, on the corner of Main and Gervais streets, where commodious quarters have been secured.

The new office will shortly be supplied with a complete outfit of self-recording meteorological instruments. Voluntary observers, crop correspondents, displaymen and others interested in the work of the Weather Bureau, are cordially invited to visit the office of the Section Director when they come to Columbia, and inspect the workings of a fully equipped Weather Bureau station.

Teachers and students will find such a visit exceedingly profitable in noting the methods of recording and collecting the data upon which the daily forecasts of the weather are based, and in learning the use of the daily weather maps, as well as in the study of meteorology and climatology.

After the instruments have been installed it will be possible to secure continuous records of the air pressure, air temperature, rainfall, sunshine, and wind direction and velocity. These instruments of themselves will be well worth seeing.

A comparison between the annual report of this section and a number of others that have been received, emphasizes the favorable climatic features of South Carolina, especially

in being free from the extremes of both heat and cold, which characterize other portions of the United States.

In New England the temperature for the year 1900 ranged between a maximum of  $101^{\circ}$  and a minimum of  $30^{\circ}$  below zero. In the middle states and Ohio valley, the maximum rose to above  $100^{\circ}$  on various dates, and the extreme minimum was  $34^{\circ}$  below zero. In the central Mississippi valley the range was between  $111^{\circ}$  and  $19^{\circ}$  below zero, while in Minnesota the lowest minimum was  $45^{\circ}$  below zero. This was the coldest weather which the reports at hand show for the year. The same State had a maximum temperature of  $103^{\circ}$ . The highest temperature in the northwestern group of states was  $116^{\circ}$  at Butte Creek, Wyoming, on June 26, and July 12, and the same State had a minimum of  $36^{\circ}$  below zero, making the range for the year  $152^{\circ}$ , and this was  $7^{\circ}$  less than the annual range in 1899.

South of the 36th parallel of latitude and east of the Mississippi, the conditions were more equable, and the annual range was generally below  $100^{\circ}$ .

#### REMARKS BY OBSERVERS.

Longshore.—The weather during January was splendid, and there was no snow. Small grain is in fine condition.—W. G. Peterson.

Beaufort.—Mean temperature during January was  $3^{\circ}$  above the normal, and the precipitation was 0.62 in excess.—S. M. Benton.

Summerville.—The relative humidity averaged 73 per centum for the month. My hygrometer is elevated about 12 feet above the ground.—Prof. John Gadsden.

Trenton.—Precipitation 0.06 inch less than the 8-year average for January. Small grains are doing well. Some plowing has been done.—A. C. Long.

Santuc.—The month was generally mild and favorable on small grain. On the 10th a bat was seen flying about, and a snake was observed on the 15th. Both days were very mild.—E. W. Jeter.

Batesburg.—January was the first month this season with wintery weather. Farm work being vigorously prosecuted, such as breaking lands and preparing them for spring planting.—E. J. Hite.

Gillisonville.—January was a pleasant month. The light rains were favorable for field work except on very low lands, where it was too wet. Grain crops are in good condition.—Sam P. Saltus.

Liberty.—Plowing was practicable on only 5 or 6 days during January, owing to the soil being either too wet or frozen. There was no extreme weather of any kind during the month, except a few days with unusually high winds. There was an unusual amount of westerly winds.—John T. Bogg.



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.						Sky.			Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
Allendale	Barnwell	186	13																G. G. Dowling.
Augusta, Ga.	Richmond	134	30	46.7	—0.3	73	11	28	19	30	4.59	+0.32	1.30		10	16	7	8	Weather Bureau.
Batesburg	Lexington	656	13	43.6		70	11	20	27	33	3.75	0.75	0.75		11	18	0	13	E. J. Hite.
Beaufort	Beaufort	28	15	50.8	+0.6	70	*10	30	26	29	3.28	+0.62	0.70		7	15	9	7	S. M. Benton.
Blackville	Barnwell	293	13	46.3	+0.3	77	11	24	26	41	3.80		1.20		11	15	11	5	G. D. C. Lange.
Calhoun Falls	Abbeville	354	8								5.54	+1.43	1.17		13	21	0	10	P. J. Pfeiffer.
Camden	Kershaw	222	35								3.75	+0.49	1.16		12	13	6	12	B. Ammons.
Charleston	Charleston	48	32	49.9	—0.1	72	10	31		25	2.25	—1.42	0.90		7	12	10	9	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	23	41.5	+0.5	69	11	22	18	26	2.38	—2.10	0.61		9	13	8	10	Weather Bureau.
Cheraw (1)	Chesterfield	114	13	43.9	+1.1	76	11	23	19	38	3.10	—0.26	0.71		11	10	3	18	W. R. Godfrey.
Cheraw (2)		108	8								2.95	+0.24	0.85		12	13	6	12	Prof. C. C. Newman.
Clemson College	Oconee	850	10	41.4		67	11	19	25	38	5.32	+0.66	2.72		9	7	13	11	Central Office.
Columbia	Richland	443	14	45.8	—0.6	75	11	25	26	40	3.34	—0.46	0.91		10	11	9	11	P. Quattlebaum.
Conway	Horry	49	10								3.30	—0.48	1.30		7	14	3	14	E. R. McIver.
Darlington	Darlington	175	6								3.03		0.62		12	15	9	7	Miss Jerry Carter.
Edisto	Bamberg	143	8								3.18	—0.03	1.10		9	14	6	11	A. J. Howard.
Edinham	Florence	106	9								4.31	+1.08	T.		12	13	6	12	H. K. Gilbert.
Florence (1)	Florence	156	13	44.3	+0.8	76	11	26	26	35	3.41		1.23	T.	9	13	8	10	B. F. Camp.
Gaffney	Cherokee		5								2.91		1.11		11	13	5	13	W. T. Turbeville.
Georgetown	Georgetown	12	8	45.7	—2.1	67	15	28	*14	40	5.15	+1.72	1.15		8	22	2	7	Sam P. Sauts.
Gillisonville	Hampton		6	48.1	—0.3	79	11	21	26	40	2.61		0.58		8	14	4	13	Mrs. S. A. Crittenden.
Greenville	Greenville	1,000	9	40.8	—0.4	65	*12	21	*18	36	4.95	+0.20	2.32		12	14	3	14	M. M. Calhoun.
Greenwood	Greenwood	671	13	43.5	+1.7	69	12	24	26	35	3.96		0.55		12	15	3	13	B. C. Hawkins.
Horse Cove, N. C.	Macon	3,800	9	38.2	+2.9	61	15	11	18	29	5.85	—1.91	3.47	0.1	6	15	8	8	Dr. J. W. Earle.
Holland	Anderson		13																C. J. Leesene.
Kingstree (1)	Williamsburg	77	13	45.8		74	11	26	14	31	3.82	+0.47	0.75		9	13	7	11	W. H. Matthews.
Kingstree (2)		77	7								4.23		1.19		10	14	6	11	Jno. T. Boggs.
Liberty	Pickens		7	42.3	+1.1	65	15	18	26	34	5.60		2.92		7	16	5	10	John M. Sease, M. D.
Little Mountain	Newberry	711	8	45.2	—0.3	71	11	25	26	29	3.27	—0.36	0.83		9	7	12	12	W. G. Peterson.
Longshore	Newberry		8	44.2	—0.1	71	11	21	26	34	4.39	—0.12	0.80		13	11	9	11	N. L. Thayer.
McColl	Mariboro	530	1	44.1		77	11	24	14	36	2.97		1.04	T.	10	20	1	10	E. P. Ravenel.
Pinopolis	Berkeley		8	45.9	—1.7	72	11	28	*14		1.20	—2.13	0.36		5	12	14	5	Weather Bureau.
Raleigh, N. C.	Wake	376	15	41.6	+1.0	75	11	20	20	30	2.20	—1.53	0.76	T.	10	14	4	13	W. B. Raysor.
St. Georges	Dorchester	109	13	46.1	—0.7	74	12	25	26	31	2.83		0.75		9	12	5	14	J. S. Wannamaker.
St. Matthews	Orangeburg	254	13	46.8		75	12	26	26	34	4.42		1.10		11	12	6	13	C. T. Shuler.
St. Stephens	Berkeley		9								3.64	+0.34	1.33		9	13	5	13	E. W. Jeter.
Santuc	Union	512	8	43.4	+1.8	72	11	21	*5	36	3.06	—0.89	0.58	T.	10	12	8	11	Weather Bureau.
Savannah, Ga.	Chatham	71	32	51.3	+0.3	74	11	32	26	27	3.62	+0.44	1.11		9	14	9	8	Geo. H. Atwood.
Shaws Fork	Aiken	500	6	45.6	—0.6	75	11	21	*26	49	4.39		1.75		7	18	6	7	H. van Keuren.
Smiths Mills	Williamsburg		6								3.88		1.60	T.	9	13	6	12	J. J. Lucas.
Society Hill	Darlington	62	10	43.2	+0.2	73	11	25	31	25	2.76	—0.54	0.62		9	14	10	7	F. P. Robinson.
Spartanburg	Spartanburg	192	10	40.4	—2.0	66	11	21	*13	33	3.06	+0.50	1.23		9	18	2	11	W. W. Anderson, M. D.
Statesburg	Sunder	875	21	47.0	+1.7	75	11	25	26	27	3.76	+0.17	1.26		9	11	9	11	Prof. Jno. Gadsden.
Summerville	Dorchester	500	4	47.8		75	11	25	*13	32	2.93		0.80		8	13	10	8	J. R. Reaves.
Temperance (a)	Marion	100	8	44.2		78	11	23	25	34	5.50		2.90	T.	8	11	14	6	C. A. Long.
Trenton	Edgefield	620	8	48.1	+0.6	71	11	28	26	23	3.86	—0.13	1.14		10	11	13	7	Etsell Gaillard.
Trial	Berkeley		15	47.0	—0.6	81	10	21	*14	41	2.94	—0.83	1.48		7	13	11	7	S. M. Pagan.
Walhalla	Oconee		11	41.6	—1.1	69	15	19	*25	36	5.12		2.32	T.	8	14	8	9	Weather Bureau.
Wilmington, N. C.	New Hanover	52	32	45.7	—1.3	73	11	25	20	29	2.48	—1.27	0.45		10	11	10	10	John W. Seigler.
Winnboro	Fairfield	545	12	44.6	+1.4	66	*11	22	26	41	2.26	—1.22	0.73		4	23	4	4	Prof. Cleve'nd Abbe, jr.
Winthrop College	York	690	2	42.1		70	11	20	26	28	2.64		0.44		11	11	7	13	R. G. Smith.
Yemassee	Beaufort	23	6	47.5		76	12	27	14	30	2.86		1.04		5	13	4	14	J. R. Schorb.
Yorkville	York	680	13	44.6	+1.7	69	11	24	26	28	2.42	—1.62	0.51		9	15	4	12	
MEANS—highest, lowest and dates, etc.				45.1	+0.5	81	10	18	26	49	3.55	—0.10	2.92	T.	9	14	7	10	nw.

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., and 9 and 2 p. m. observations.

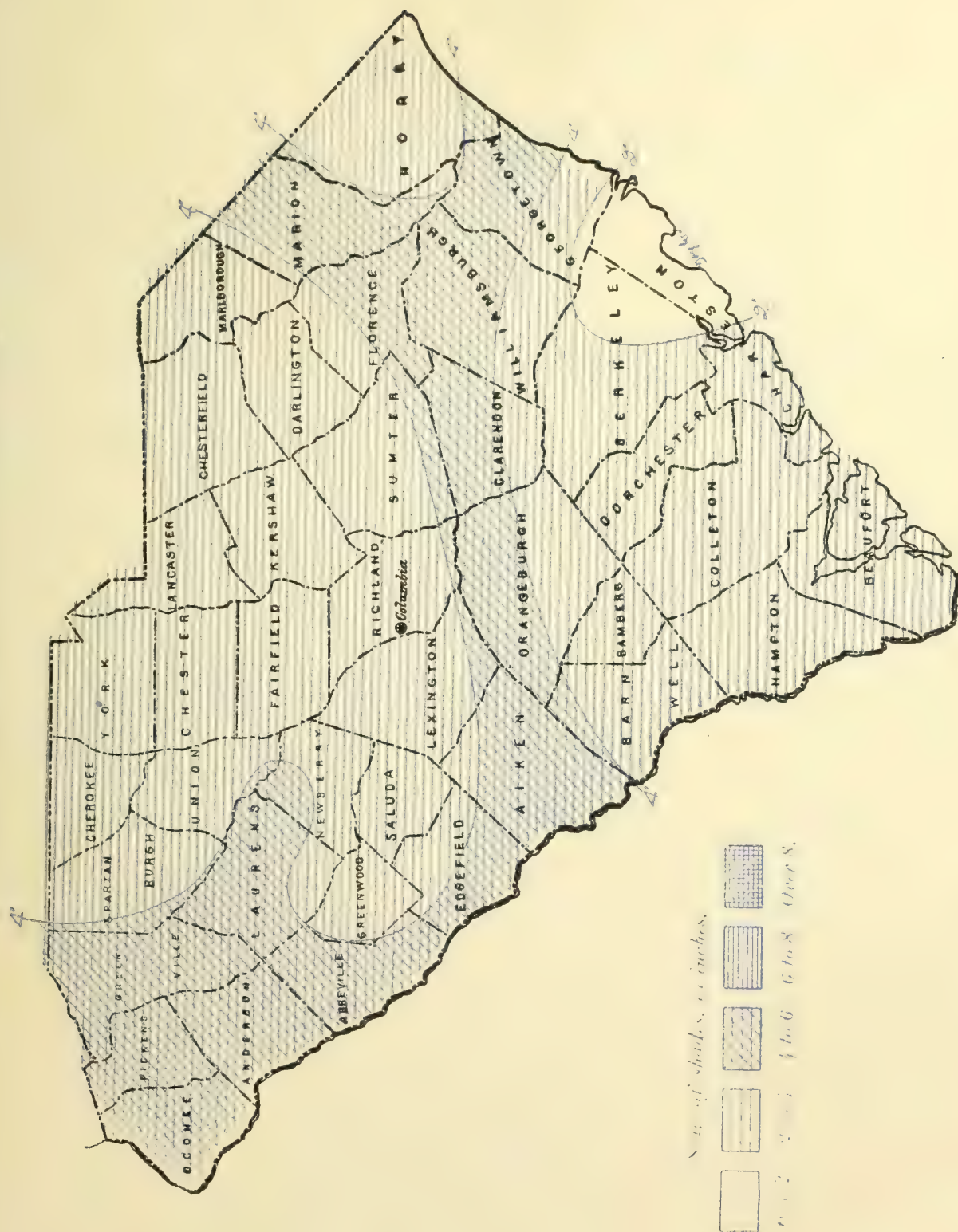


### STATIONS.

[illegible]



# TOTAL PRECIPITATION FOR JANUARY, 1901.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JANUARY, 1901.

STATIONS.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Allendale																																
Augusta, Ga.	.57	1.30	.02							.02	.02	.11					.85								.40			.61			.69	4.59
Batesburg		.60	.75									.30					.55	.40						.05	.50		.05	.15		.15	.25	3.75
Beaufort	.03	.48	.68	.67													.43							T.							.70	3.28
Blackville	*	.67	1.20	.20							.11						.51	.20			T.		*	.35		*	.26		.11	.19		3.80
Calhoun Falls	.30	.52	.31							.22	.88	.40				*	.50						*	1.17			.24		.48	.52	5.54	
Camden	T.	.38	.48								.04	.38					.64	.52				T.		.03	.53		.14	.19		.06	.36	3.75
Charleston	T.	.26	.63	.44								.03					.33				T.		T.		T.		.22			.34	T.	2.25
Charlotte, N. C.	.05	.14	T.							.44	.15	.43					.25				T.	T.		.27		T.	.04			.61		2.38
Cheraw(1)	.23	.60								.05	.20						.71	.25			T.	.05		.33		.15	.13			.40		3.10
Cheraw(2)	*	.12	.64							*	.06	.23					.45	.40				.05		*	.32	*	.11	.16		.03	.38	2.95
Clemson College		.25								2.72	1.20						.10	.10				.01		*	.36		*		.48			5.32
Columbia	.42	.62	.07							.04	.06	.14					.91					T.		.45		T.	.33			.30		3.34
Conway		.10	1.30	.25																				.45			.10	.40			.70	3.30
Darlington, near	.21	1.00	.02								.07						.60	.42				.07			.43	.10	.45		.01	.25		3.63
Edisto		.62	.48		.35							.25					.20	.06						.05	.20		.22	.11		.14	.50	3.18
Efingham		.35	1.10	T.							T.						.65	.50							.75		.07	.46	T.	.41	.02	4.31
Florence	*	1.23								T.	.07						.40	.64							.44		.10	.35		.18		3.41
Gaffney	.04	.06	.13							.06	1.05	.60					.26	T.						.16	.08		.07			.40		2.91
Georgetown	1.00	.50		.25								.15					.50	.60						1.00						1.15		5.15
Gillisonville	T.	.58	.24	.41								.07					T.	.26			T.			.30			.41			.34		2.61
Greenville	T.	.04	.13							.17	2.32	1.23					.14	.02						.32	.05		.13	.03		.37		4.93
Greenwood	.40	.25	.53							.45	.53					*	.47						*	.64			.12	.10	*	.47		3.96
Horse Cove, N. C.		.03								1.23	3.47						T.				T.			.41		T.	T.	.01		.70		5.85
Holland										*	1.80						.80															
Kingstree(1)		.75	.62	.58													.27	.60						.22	.34			.21	.23			3.82
Kingstree(2)		.75	.58	.61													.25	.55						.25	.32			.15	.25		.52	4.23
Liberty	T.	.44								2.92	1.35						T.	.20						.25			T.	.20			.24	5.60
Little Mountain		.20	.83	.06							.03	.18					.83							.43		T.	.31			.40		3.27
Longshore	.59	.54								.35	.60	.01					.80	.04						.68	.05		.08	.13		.42	.10	4.39
McColl	.11	.40	.14							T.	.02	.18					1.04				T.			.38			.25			.44	.01	2.97
Pinopolis				.36														.36							.01		T.	.27			.20	1.20
Raleigh, N. C.	T.	.02								.11	.05	.57					.76				T.	.01		.12	.05	T.	.17			.34		2.20
St. Georges		.75	.50	.45													.14	.20						.04	.46					.06	.22	2.83
St. Matthews		.48	1.10	.25								.09					.25	.25						.20	.70		.25			.10	.75	4.42
St. Stephens		.18	1.33	.35														.39							.47		.07	.20		.02	.63	3.64
Santuc	.16	.33								.20	.25	.44					.58					.01		.45			.15			.49		3.06
Savannah, Ga.	.11	.18	1.11	.56							T.	.08				*	.42			T.	T.			T.			.25			.83	.03	3.62
Shaws Fork	.50	1.75	.04								.10						1.05							.40						.55		4.39
Smiths Mills		.10	1.60	.20													.28	.20						.40			.30	.50		.30		3.88
Society Hill	.33	.40									.16						.62								.45		.15	.13		.15	.37	2.76
Spartanburg		.15								.06	1.23	.63					.25				T.			.20			.02			.50	.02	3.06
Statesburg	.27	1.26	T.								.14	.09					.90				T.	.02		.53			.35			.20		3.76
Summerville	.04	.80	.71								.02						.39							.10			.34			.53		2.93
Temperance	*	2.90									T.	.07					1.26					.12		.41			.41			.33		5.50
Trenton	.58	.65	.07							.05	.02	.07				*	1.14								.46		T.	.19			.63	3.86
Trial	*	*	1.48	.33													.43							.40			.25			.05		2.94
Walhalla		.10								2.00	2.32										T.			.30		*		.12		*	.28	5.12
Wilmington, N. C.	.02	.12	.21	.02						T.	T.	.03					.30	T.				.07		.30			.45	T.		.36	T.	2.48
Winnboro											.33						.73	.65					.55									2.26
Winthrop College	.25	.25	.01							.30	.30	.30					.44				.02			.23			.30			.44		2.64
Yemassee		.16	.65	1.04													T.	.36			T.			.23		T.				T.	.65	2.86
Yorkville		.02	.21								.45	.26	.40				.30							.23		T.	.04			.57		2.42

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



551.95  
DASO

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1901.

NORTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF OF WEATHER BUREAU

BY

C. F. von HERRMANN,

OBSERVER AND SECTION DIRECTOR,

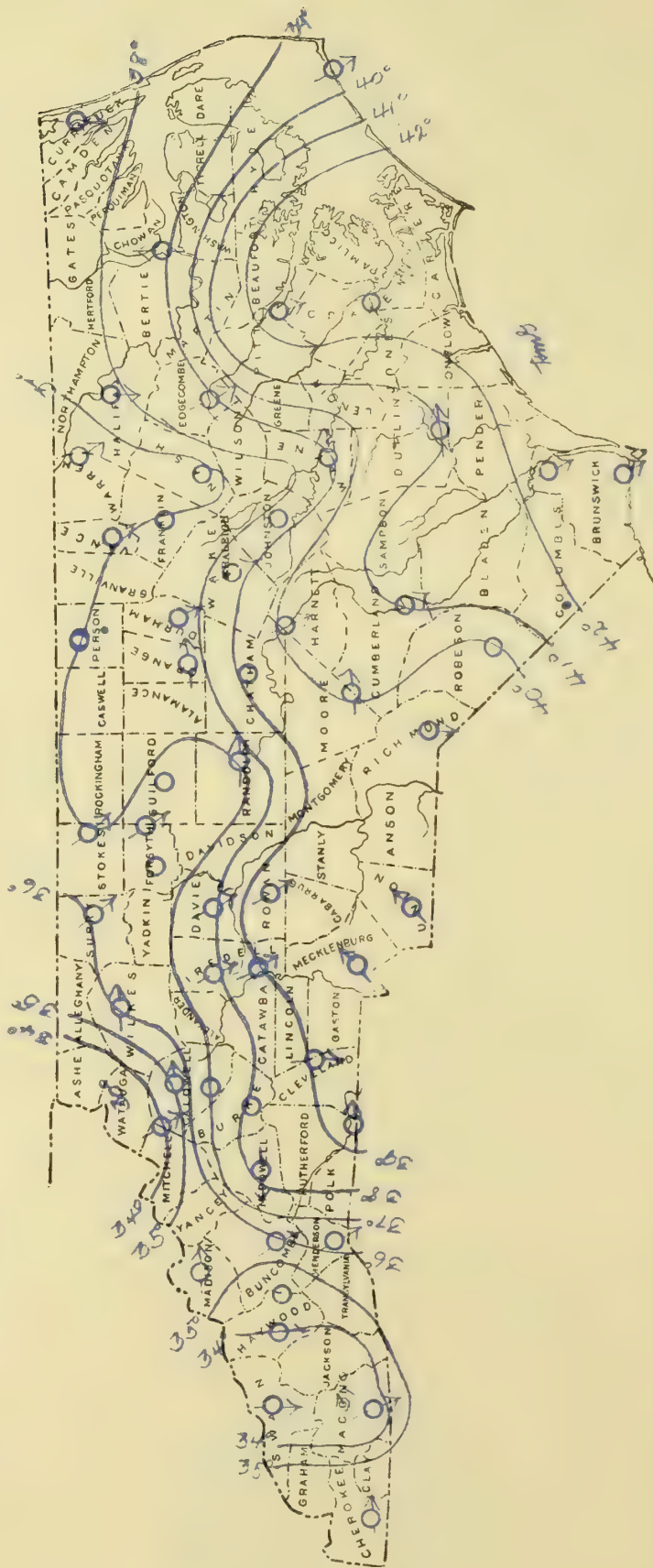
RALEIGH, N. C.





# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR FEBRUARY, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

NORTH CAROLINA SECTION,

C. F. von HERRMANN, Section Director,

RALEIGH, N. C.

VOL. VI. RALEIGH, N. C., FEBRUARY, 1901.

No. 2.

## THE FARMER AND THE WEATHER.

Paper read at Annual Convention of Cotton States Association of Commissioners of Agriculture, at Raleigh, August 30, 1900. (Commenced in January issue.)

The development of the practical part of meteorology—weather forecasting—has depended largely upon the spread of the electric telegraph. How was the discovery made that the apparently haphazard changes in the weather could be foretold? The idea soon occurred to students of the subject that, by taking weather observations at many stations over an extended area at precisely the same moment of time, and charting the results upon a map, a picture could be obtained of existing conditions, while successive maps would show the changes ever occurring in the immense panorama of the weather. The first weather maps were published in 1820 by Prof. H. W. Brandes of Leipzig, from a study of the voluminous records published by the Meteorological Society of the Palatinate, at Mannheim, Germany. The study of the maps led to a true understanding of the mechanics of the atmosphere and the laws of storms. Americans have been pioneers in the advancement of this branch of meteorological science, and in a brief sketch it is impossible to do more than refer to the labors of such distinguished men as Espy, Henry, Redfield, Loomis, and Ferrel. After the rapid introduction of the telegraph throughout the United States in 1848, the compilation of weather maps from simultaneous observations at many stations was carried on by Prof. Joseph Henry, at the Smithsonian Institute, where charts were displayed daily from 1856 to 1861, and forecasts were made for the benefit of Congressmen and others. In France daily weather maps began to be published in 1863 and in most other European countries soon afterward. In the United States the work was taken up again after the war by Prof. Cleveland Abbe, then (1868) director of the Cincinnati Observatory, and one of the most accomplished meteorologists of our time; but the great importance of the matter to the country at large was becoming widely recognized, and the magnitude and cost of the work required that it should be undertaken by the National Government. Accordingly, acting upon petitions presented by prominent individuals, scientific societies, and boards of trade throughout the country, Congress, in 1870, passed a joint

resolution which authorized the issue of storm and weather predictions and placed the matter under the control of the Signal Service of the United States Army. The successive chiefs of the Weather Bureau while it remained under military control were Generals A. J. Myer, W. B. Hazen, and A. W. Greely. Established at first chiefly in the interest of commerce, the growing recognition of the great benefit of the service to agriculture led to its transfer in July, 1891, from the War Department to the Department of Agriculture, with Prof. M. W. Harrington as first civilian chief. In 1895 Prof. Willis L. Moore was appointed chief of the bureau in acknowledgement of his meritorious services as a member of the corps.

Every country in the civilized world now has a weather service. The Weather Bureau of the United States is unique in the magnitude and precision of its operations, the extent of territory covered, and the benefits it confers upon the people. Improvements during the last decade have been marked. The present Secretary of Agriculture has been a firm friend of the Weather Bureau and under his directions the operations of the service have been widely extended. The Caribbean Sea has been surrounded by a cordon of stations so that no hurricanes may approach the Gulf or Atlantic coast unheralded; cooperation with the services of Canada and Mexico has been made closer; the number of observing stations in the south and west has been increased; a corn and wheat region service has been established in the northwest, similar to the cotton region service in the south, and finally the local climate and crop services have been furnished with improved printing appliances to secure uniformity in the style of the various publications.

The Weather Bureau has been in existence thirty years, and it would appear reasonable to assume that there can be no lack of knowledge of its aims and methods, yet it is surprising how many people still think that weather observers use telescopes and derive their information from the stars. If anything has been definitely settled by the meteorologists it is that neither the moon, the planets, nor the fixed stars have any appreciable influence on the weather. Long range forecasts pretended to be based upon the conjunction of the planets, eclipses, or other astronomical phenomena are downright and purposely fraudulent. A knowledge of the actual operations of the Weather Bureau and the method of making forecasts will reveal the falsity of the idea. Stations of the Weather Bureau are equipped only with instruments for observing and measuring the elements of the weather. The most important instruments are: the barometer, which measures the weight of the air; thermometers, for observing exposed, maximum and minimum, and wet-bulb temperatures; rain and snow gauges; anemometers, for measuring wind velocities, and wind vanes. Many of the self-recording instruments are marvels of ingenuity. There are over 150 stations of the Weather Bureau so equipped, situated within the limits of the United States. Observations of the weather are taken daily at 8 in the morning and at 8 at night, simultaneously throughout the country, and are telegraphed promptly to the Central Office of the service at Washington, D. C., and to most of the



larger cities. By an ingenious cypher-code the data of each observation, which ordinarily expressed would require from 25 to 30 words, are contracted to a limit of 5 or 6 words, thus greatly reducing the cost of the telegrams and expediting their transmission. By arrangements with the telegraph companies special wires are placed at the disposal of the Weather Bureau morning and evening, and a system of circuits accomplishes the remarkable result that telegrams from all of these 150 stations, scattered from Maine to Florida and from Texas to the Pacific coast, are received at Washington and many larger cities of the country within one hour after the observations are taken.

Barometer and Wind Table for February, 1901.

STATIONS.	BAROMETER.					WIND.				
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement.	Average hourly.	Maximum velocity.		
								Miles.	Direction.	Date.
Charlotte .....	30.04	30.34	28	29.70	18	5,155	7.7	28	nw.	22
Chattanooga, Tenn. .	30.14	30.50	5	29.80	18	5,763	8.6	32	nw.	19
Hatteras .....	29.99	30.37	28	29.61	19	10,799	16.1	50	nw.	13
Kitty Hawk .....	30.12	30.46	5	29.77	17	6,080	9.0	33	w.	4
Knoxville, Tenn. ....	30.01	30.37	11	29.67	18	4,217	6.3	30	nw.	12
Lynchburg, Va. ....	30.00	30.40	28	29.61	19	6,962	10.4	37	nw.	5
Norfolk, Va. ....	30.04	30.36	28	29.70	19	4,922	7.3	28	nw.	4
Raleigh .....	30.04	30.39	28	29.65	19	5,677	8.4	35	w.	4
Wilmington .....	30.04	30.39	28	29.65	19	5,677	8.4	35	w.	4
Averages .....	30.05	30.50	5	29.61	19	6,197	9.2	50	nw.	13

## CLIMATOLOGY FOR THE MONTH.

## General Remarks.

The pressure, temperature, and precipitation for February, 1901, were all considerably below the normal, but the large number of fine, clear days, and the absence of long periods of rainy weather made the month far from disagreeable. However, the mean temperature this month, 38°, is lower than the mean for any February since 1872, excepting only in 1895 (32°) and 1899 (36°). In spite of a deficiency of over 5°, the month was not characterized by exceptionally low minimum temperatures, but rather by the absence of the unusual periods of warm weather, excepting one of short duration about the 18th. Three or four barometric depressions influenced the weather in North Carolina sufficiently to produce precipitation, which occurred on the 3d and 4th, 8th to 12th, and on the 23d. February in 1877 and 1898 only were drier than the present month, with its small average of 1.93 inches. The area of low barometer which appeared over Texas on the morning of the 22d and moved to northern Florida the morning of the 23d, in conjunction with the cold wave prevailing in the central valley caused a unique snowstorm in eastern North Carolina on the 23d. The largest amount of unmelted snow was 9 inches, extending over the southeast section from Washington through Newbern to Wilmington, whence the depth diminished rapidly westward to about one inch at Charlotte, and none in the mountain districts. Severe cold followed the storm, with the lowest temperature for the entire winter generally on the 24th.

Conditions were rather unfavorable for winter wheat, which was considerably injured by alternate freezing and thawing. The drought also prevented spreading, so that the condition of the crop at the end of February was backward. Some correspondents, however, attribute most of the damage to the ravages of the hessian fly in the early part of the season. Not enough winter wheat has been killed to prevent good stands when growth starts. Preparations for truck crops became active the latter part of February. Strawberries appear to be late and the crop below the average.

## Temperature, in Degrees Fahrenheit.

The monthly mean for the State was 38.1°, which is 5.2° below normal. Means by districts: Eastern, 39.6°; Central, 38.3°; Western, 36.5°.

The highest monthly mean was 43.8° at Southport; the lowest, 29.2° at Linville.

The highest absolute temperature was 77° on the 18th at Newbern; the lowest was 3° on the 24th at Flat Rock, giving a range of 74° for the State.

The greatest daily range was 45° at Weldon on the 22d.

The mean temperature was below normal at all stations; the greatest deficiencies occurred in the central-east portion, the least in the northwest. The departure exceeded -5° at 14 stations.

## Precipitation, in Inches.

The average for the State was 1.93 inches, which is 2.41 inches below the normal. Averages by districts: Eastern, 2.37 inches; Central, 1.53; Western, 1.88.

The greatest monthly total was 4.39 inches at Sloan; the least, 0.68, at Louisburg.

Amounts of precipitation exceeding 2 inches in 24 hours: Linville 2.35 on the 9th.

The average snowfall (unmelted) was 3.2 inches. By Districts: Eastern 6.1, Central 2.3, and Western 1.1. The largest total was 9 inches at Newbern and Wilmington.

The precipitation was below normal at every station except Southport.

## Wind.

The prevailing direction of the wind was northwest. The average hourly velocity, 9.2 miles.

## Weather.

Average number of clear days 16, partly cloudy days 6, cloudy days 6, and rainy days 5.

## MISCELLANEOUS PHENOMENA (with dates).

Snow in small amounts occurred, chiefly in the north and west, on the following dates: 2, 3, 4, 7, 8, 11, 20, 22, and throughout the east on the 23d.

SLEET: Flat Rock, Hendersonville, 3; Kinston, 26; Littleton, Oak Ridge, 7; Raleigh, 11; Roxboro, 8; Southport, 23; Settle, 3, 7, 11; Tarboro, 11; Washington, 26.

Fog: Hatteras, Oak Ridge, 9; Raleigh, 2, 7, 8, 9, 22.

HAZE: Charlotte, 27; Hatteras, 10; Marion, 9, 10, 28; Raleigh, 16; Washington, 15, 17.

SMOKE: Charlotte, 6, 18, 28; Raleigh, 27; Sloan, 22; Waynesville, 28.

HALOS, LUNAR: Brewers, Charlotte, Highlands, Kinston, Marion, Oak Ridge, Raleigh, Settle, Wilmington, 25; Charlotte, Highlands, Kinston, Wilmington, 28; Marion (lunar corona), 23; Saxon, 23; Waynesville, 26, 27.

HALOS, SOLAR: Charlotte, 7, 15, 17, 27; Raleigh, 7; Marion (solar coronæ), 22, 28.

GALES: Generally on 3d to 5th, 12th to 14th, 23d and 24th.



## CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record— years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.			Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.
EASTERN DISTRICT.																				
Currituck Inlet.....	Currituck.....		8								1.40	-2.42	0.70	6.0	3	20	5	3	n.	Alphens Drinkwater.
Edenton.....	Chowan.....	30	38.6	-4.8	68	18	14	24	28	2.18	-2.29	0.76	7.0	5	17	4	7	s.	E. R. Conger.	
Goldsboro.....	Wayne.....	102	37.1	-10.2	72	18	11	24	29	1.79	-1.63	0.80	2.5	6	19	0	9	.....	Mrs. N. B. Taylor.	
Hatteras.....	Dare.....	11	39.5	-7.5	63	4	22	24	21	2.35	-2.21	0.85	1.1	9	18	3	7	nw.	S. L. Doshier.	
Kinston.....	Lenoir.....	1	39.5		74	19	12	24	34	2.49		1.00	8.0	4	14	8	6	w.	Dr. Richard H. Lewis.	
Kitty Hawk.....	Currituck.....	9	26																J. J. Doshier.	
Littleton.....	Halifax.....	380	36.3	-3.6	71	18	16	24	36	1.02	-3.49	0.45	3.0	3	20	0	8	nw.	Dr. B. Ray Browning.	
Lumberton.....	Robeson.....	102	39.8	-1.9	69	18	14	24	30	2.18	-1.72	0.88	7.0	4	7	15	6	.....	B. M. Davis.	
Newbern.....	Craven.....	12	43.0	-4.0	77	18	17	24	38	3.43	-0.65	1.05	9.0	7	16	7	5	nw.	James B. Hill.	
Norfolk, Va.....	Norfolk.....	69	30	35.9	-6.9	60	16	16	24	27	1.15	-2.61	0.52		7	17	6	5	nw.	James J. Gray.
Southport.....	Brunswick.....	34	45	43.8	-5.9	68	18	17	24	31	4.18	+0.77	0.90	7.4	6	18	5	5	nw.	J. M. Stevens.
Sloan.....	Duplin.....	50	8	40.7	-3.8	75	18	9	25	40	4.39	-0.02	1.40	8.0	5	16	5	6	w.	D. M. Sholar.
Spring Hope*.....	Nash.....	5																	Geo. W. Bunn.	
Tarboro.....	Edgecombe.....	50	38.1	-6.4	73	19	12	24	30	1.92	-1.78	0.57	6.0	6	18	3	7	nw.	E. V. Zoeller.	
Washington.....	Beaufort.....	25	42.4		72	18	15	23	35	2.59		0.78	8.0	6	20	2	6	nw.	Prof. Harry Howell.	
Weldon.....	Halifax.....	81	39.8	-4.8	67	21	11	24	45	1.21	-2.27	0.49	3.0	5	15	0	13	n.	H. S. S. Cooper.	
Wilmington.....	New Hanover.....	52	42.4	-7.6	72	18	18	24	24	3.21	-0.17	0.90	9.0	8	16	8	4	nw.	G. W. Felger.	
Average.....			39.6			77	18	9	25	2.37		1.40	6.1	6	17	5	6	nw.		
CENTRAL DISTRICT.																				
Chapel Hill.....	Orange.....	500	44	37.9	-6.4	72	18	11	24	37	1.52	-2.29	0.65	2.0	6	19	3	6	w.	Prof. J. W. Gore.
Durham.....	Durham.....			38.4		71	18	12	24	34	1.70		0.70	1.5	5	15	7	6	nw.	Prof. A. H. Meritt.
Fayetteville.....	Cumberland.....	170	16	41.0	-4.2	76	18	16	24	37	1.91	-2.40	0.85	5.0	7	19	4	5	nw.	Frank Glover.
Greensboro.....	Guilford.....	843	18	36.2	-7.5	71	18	16	24	31	1.95	-2.05	0.99	0	8	16	0	12	.....	A. R. Horry.
Henderson.....	Vance.....	490	8	37.4	-2.7	70	18	12	24	37	0.70	-3.61	0.35	1.5	5	18	3	7	nw.	Enoch Powell.
Louisburg.....	Franklin.....	375	10	37.0	-3.8	69	18	13	24	32	0.68	-3.69	0.30	4.0	3	21	3	4	.....	T. B. Wilder.
Monroe.....	Union.....	586	8	39.7	-5.3	72	18	8	24	37	1.71	-3.27	0.87	2.5	4	19	1	8	sw.	T. A. Ashcraft.
Moncure.....	Chatham.....		8	40.4	-0.6	70	18	8	23	31	1.49	-2.93	0.67	2.3	5	11	12	5	nw.	Rev. W. H. Thompson.
Oak Ridge.....	Guilford.....	1,013	11	36.2	-5.4	71	19	13	24	37	1.30	-4.22	0.66	0.6	7	20	1	7	nw.	Prof. J. Allen Holt.
Pittsboro.....	Chatham.....	480	12																Prof. A. H. Meritt.	
Raleigh.....	Wake.....	375	30	38.8	-5.3	72	18	13	24	30	1.48	-2.62	0.53	2.5	6	17	6	5	nw.	Central Office.
Roxboro.....	Person.....	600	8	37.0	-2.5	68	18	12	24	27	1.08	-3.80	0.55	1.9	4	17	5	6	.....	Dr. J. A. Wise.
Rockingham.....	Richmond.....	210	8	39.4	-5.6	72	18	7	24	37	1.68	-2.93	0.75	3.0	4	21	2	5	n.	Dr. J. M. Stansill.
Selma.....	Johnston.....	225	11	37.6	-6.7	73	18	10	24	36	1.97	-2.40	0.62	6.0	4				.....	Dr. R. J. Noble.
Saxon.....	Stokes.....	900	10	37.6	-2.3	72	18	10	24	38	1.17	-3.42	0.54	1.0	4	6	17	5	nw.	R. P. McAnally.
Soapstone Mount.....	Randolph.....		12	36.0	-3.5	70	18	9	24	41	1.58	-3.26	0.67	1.5	7	9	15	4	w.	H. L. Kimrey.
Southern Pines.....	Moore.....	400	9	42.0	-3.5	76	18	10	24	42	1.81	-2.55	0.75	2.0	6	22	2	4	w.	S. S. Thomas.
Salem Female Academy.....	Forsyth.....	1,000	6	36.8		71	18	10	24	37	2.12		1.12	0.5	4				.....	Rev. J. H. Clewell.
State Horticultur'l Farm.....	Moore.....	400	2	40.4		73	18	13	24	29	1.70		0.63	4.0	6	13	9	6	sw.	Norman Robinson.
Average.....			38.3			76	18	7	24	42	1.53		1.12	2.3	5	16	6	6	nw.	
WESTERN DISTRICT.																				
Asheville.....	Buncombe.....	2,250	26								0.91	-2.57	0.42	T.	3	15	6	7	nw.	Dr. W. A. Schoenheit.
Brewers.....	Wilkes.....		3	36.3		70	18				1.48		0.76	1.0	3	17	8	3	w.	W. L. Brewer.
Bryson City.....	Swain.....	2,000	13					10	25	44	2.49	-3.24	0.77	T.	7	15	2	11	n.	D. K. Collins.
Biltmore.....	Buncombe.....	2,150	5	34.8		61	18				2.49		0.83	0.2	5	15	7	6	nw.	D. C. Champlain.
Charlotte.....	Mecklenburg.....	808	25	39.9	-4.7	71	18	9	1	27	1.40		1.13	1.0	6	13	8	7	sw.	Charles Davis.
Cherryville.....	Gaston.....		1	39.0		73	18	17	24	25	1.96	-2.54	1.34	0	6	21	3	4	n.	J. L. Stroup.
Flat Rock.....	Henderson.....	2,214	6	35.8	-4.2	71	18	3	24	39	1.90	-2.84	1.21	1.0	5	16	6	6	nw.	E. R. Memminger.
Henrietta.....	Rutherford.....		1	40.4		74	17	11	21	44	2.21		1.43	1.0	4	14	6	8	w.	Dr. Frank Bright.
Hendersonville.....	Henderson.....	2,167	3	36.0		69	18	8	24	36	1.76		1.09	0.5	4	19	6	3	nw.	R. F. Bell.
Highlands.....	Macon.....	3,817	18	30.6	-6.0	58	18	4	24	27	2.95	-5.24	1.91	5.0	5	10	13	5	nw.	Miss Albertine Staub.
Horse Cove.....	Macon.....	2,800	9																.....	B. C. Hawkins.
Linville.....	Mitchell.....	3,800	8	29.2	-1.8	55	17	3	25	32	3.15	-0.93	2.35	8.0	5	19	4	5	nw.	Dr. C. Teal.
Lenoir.....	Caldwell.....	1,186	30	37.0	-3.4	65	16	11	24	38	1.70	-2.75	0.82		3				.....	H. C. Martin.
Morganton.....	Burke.....	1,135	9	38.6	-2.6	68	17	12	25	32	2.80	-1.90	1.90		3				.....	Dr. P. L. Murphy.
Mt. Airy.....	Surry.....	1,048	13	36.0	-3.9	70	18	10	25	38	1.26	-2.92	1.12	2.0	2	15	10	3	nw.	Jos. W. Ashby.
Marion.....	McDowell.....	1,425	8	38.6	-3.4	74	18	12	24	42	2.06	-2.18	1.16	1.6	7	18	7	3	e.	Sgt. Thos. McGuire.
Murphy.....	Cherokee.....	1,614	23								2.49	-3.95	0.84	T.	5	17	1	10	w.	Julia A. Campbell.
Mocksville.....	Davie.....	651	9	37.6	-4.7	76	18	13	25	40	1.59	-2.59	0.99	1.0	5	20	4	4	nw.	P. S. Early.
Marshall.....	Madison.....		2	35.6		62	16	9	6	35	0.89		0.60	T.	2	17	5	6	w.	T. F. Wilde.
Patterson.....	Caldwell.....		2	34.2		70	18	14	25	32	1.71		0.85	1.0	4	11	13	4	w.	W. H. Frith.
Salisbury.....	Rowan.....	760	16	39.8	-4.4	75	18	18	25	34	1.77	-2.65	0.87	T.	5				.....	E. W. Burt.
Settle.....	Iredell.....		5	39.2		72	18	14	25	36	1.39		0.93	0.1	5	18	6	4	nw.	H. H. Blaylock.
Statesville.....	Iredell.....	950	6	36.6	-3.8	75	18	9	23	44	1.95	-2.55	1.25	0.5	4	13	9	6	nw.	Miss Azile Davidson.
Waynesville.....	Haywood.....	2,756	8	34.2	-3.1	65	18	7	21	35	1.40	-2.27	1.04	0	3	19	4	5	n.	Caroline M. Cooper.
Average.....			36.5			76	18	3	24	44	1.88		2.35	1.1	4	16	6	6	nw.	
Average for State.....			38.1	-5.2		77	18	3	24	45	1.93	-2.41	2.35	3.2	5	16	6	6	nw.	
Hatteras.....			45.4	+0.1	68	11	29	20	29	2.90	-2.44	0.90	0	0	15	13	7	11	n.	
Henderson.....			39.6	+0.2	72	11	19	20	36	2.20	-1.76	0.80	0	0	9	13	5	13	n.	
Morganton.....			40.4	+3.1	63	10	17	21	34	2.50	-1.46	1.60	0	0	2					

NOTE.—All records are used in determining State or District means, but the State departures are determined by comparison of current data of only such stations as have normals. The normals include the year 1897; subsequent years not yet incorporated. \* From 7 a. m., 2 and 9 p. m. readings. † Data for January.

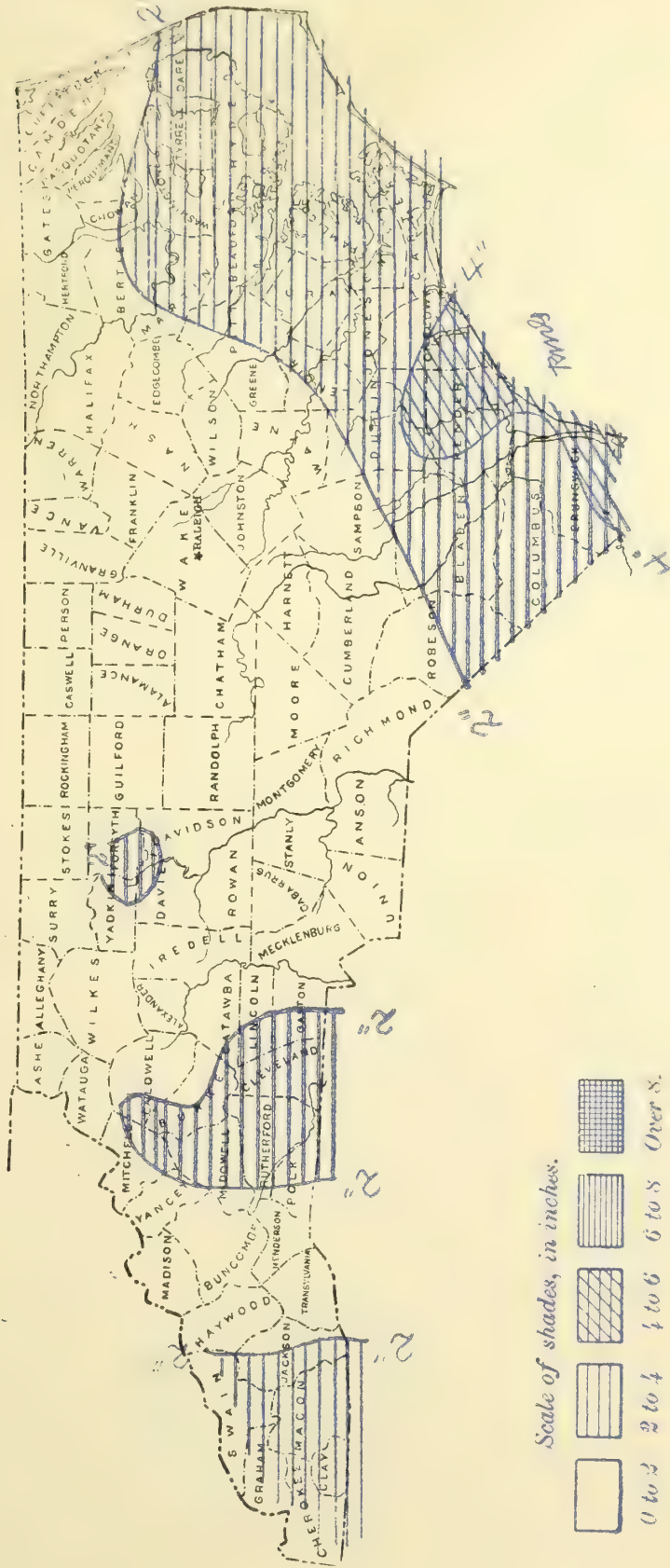


a Temperatures from 7 A. M. and 2 P. M. observations.

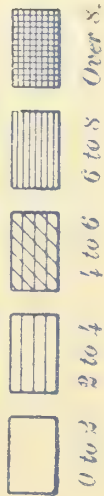
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TOTAL PRECIPITATION FOR FEBRUARY, 1901.



Scale of shades, in inches.





## DAILY PRECIPITATION FOR NORTH CAROLINA, FEBRUARY, 1901.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
EASTERN DISTRICT.																																	
Currituck Inlet			.10						.70														.60									1.40	
Edenton		.25	.32				.15	.76			T.											.70										2.18	
Goldsboro			.50					.09	.80			.15											.10	.15								1.79	
Hatteras																																	
Kinston			.60					1.00			T.												.65				.24					2.49	
Kitty Hawk																																	
Littleton		.27					T.	.45	T.		T.												.30									1.02	
Lumberton			.45						.88			.49												.36								2.18	
Newbern		.05	.33					.15	.49		.26	.20											.90			1.05						3.43	
Norfolk, Va		.09	.03					.07	.36										.02			T.	.52	.06								1.15	
Southport		.90						.27	.67		.71												.74				.89					4.18	
Sloan		.60							1.12		1.40												.75				.52					4.39	
Spring Hope																																	
Tarboro		.03	.50					.36	.57		.03													.43								1.92	
Washington		.64					.26	.78	.24		T.												.64	*		.03						2.59	
Weldon			.31					.09	.49		.04																					1.21	
Wilmington		.58	.13					.14	.41		.33	.09											.90	T.		.28	.63					3.21	
CENTRAL DISTRICT.																																	
Chapel Hill			.12	.51					.65		.03	.07												.14								1.52	
Durham		.70						.20	.50		.10												.20									1.70	
Fayetteville		.04	.34					.05	.85	.06	.21													.36								1.91	
Greensboro		.06	.99					.18	.43	.04	.12	.06												.07								1.95	
Henderson		T.						.10	.35	.05	.05												.15									0.70	
Louisburg		.28						T.			.10												.30									0.68	
Monroe		.51							.87		.15												.18									1.71	
Moncure		.10	.45					.30	.37		.12	T.												.15								1.49	
Oak Ridge		.15	.51					.12	.41		.02	.06												*	.03							1.30	
Pittsboro																																	
Raleigh		.50	.03					.30	.37		.02												.25	T.								1.48	
Roxboro		.34						T.	.55		.04												.15									1.08	
Rockingham		.38					T.	.25		.75													.30									1.68	
Selma		.62						.55			.20												.60									1.97	
Saxon		.54							.50		.06								.07													1.17	
Soapstone Mount			.67					.22	.40			.17											.12									1.58	
Southern Pines		.23	.10					.25	.75		.28												.20									1.81	
Salem Fem Academy		1.12						.65		.20													.15									2.12	
State Hortl. Farm		.32	.07					.15	.63		.28												.25									1.70	
WESTERN DISTRICT																																	
Asheville			.41					.08		.42													T.		T.							0.91	
Brewers		.76						.58		.14																						1.48	
Bryson City		.56	.77					.09	.68	.32	.04												.03									2.49	
Biltmore																																	
Charlotte		1.06	.07					.05	.31		.36	T.											.11									1.96	
Cherryville		1.34	.08					.09	.25		.25												.07									2.08	
Flat Rock		1.21						.07	.34		.18												.10									1.90	
Henrietta		1.43						.36			.32												.10									2.21	
Hendersonville		1.09						.07		.55													.05									1.76	
Highlands		1.91						.84		.10													.10									2.95	
Horse Cove																																	
Linville			.40						2.35		.20												.10	.10								3.15	
Lenoir			.82					.58		.30																						1.70	
Morganton		1.90						.50		.40																						2.80	
Mt. Airy		1.12								.14																						1.26	
Marion		1.16	.03				T.	.06	.53	.21	.04												.03									2.06	
Murphy		.74	.84					.15	.56	.20												T.		T.								2.49	
Mocksville		.99						.12	.23	.15														.10								1.59	
Marshall			.62							.27																						0.89	
Patterson		.85						.60		.14	.12																					1.71	
Salisbury		.15	.87						.45	.11	.19												T.									1.77	
Settle		.93						.05	.28		.12												.01									1.39	
Statesville		1.25						T.	.40		.25												.05									1.95	
Waynesville		1.04						T.		.31	.05																					1.40	

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR MARCH, 1901.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

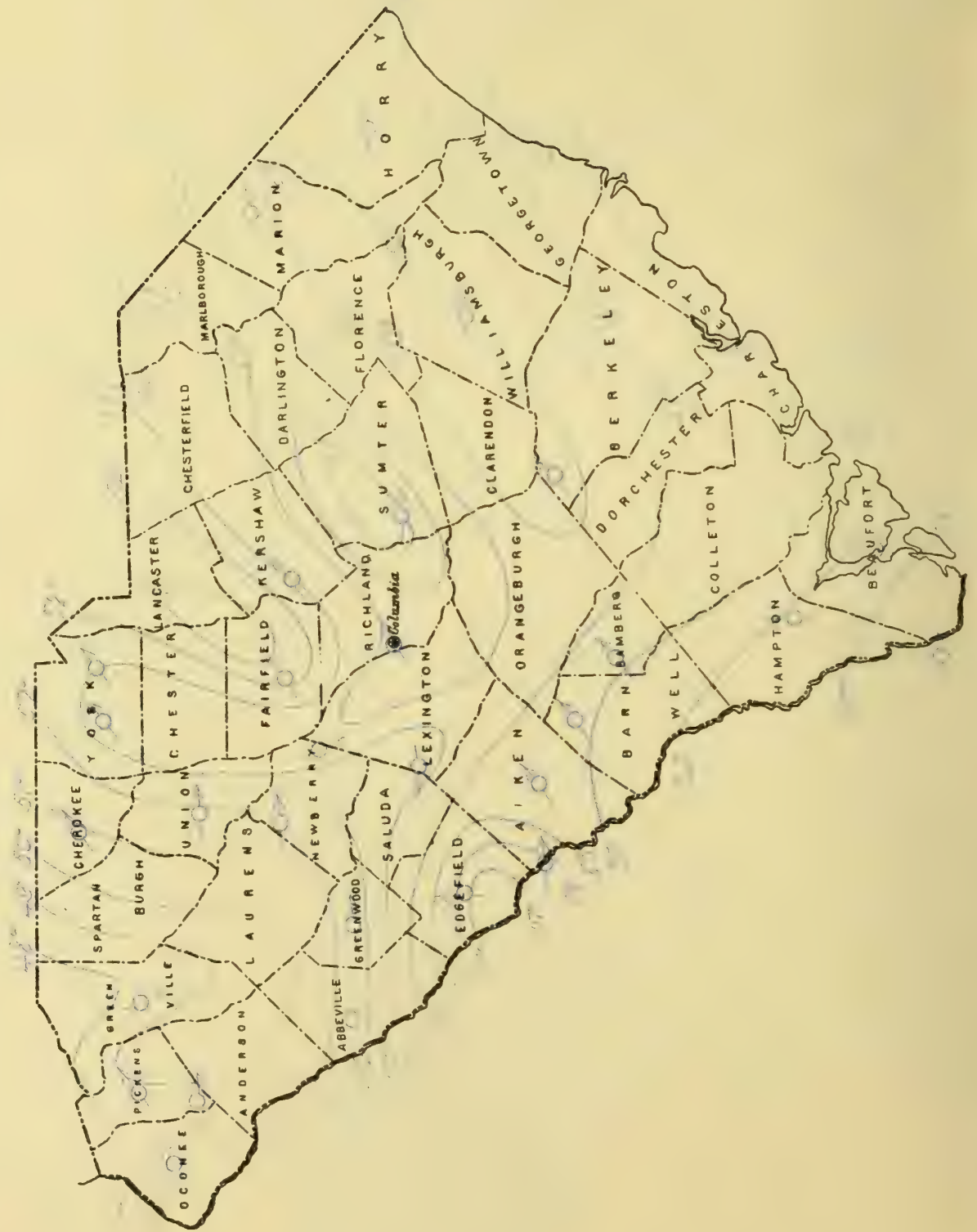


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MARCH 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., MARCH, 1901.

No. 3.

## CLIMATE AND CROPS.

The month of March, 1901, averaged slightly cooler than usual, and was noteworthy for its rapid temperature fluctuations. The difference between the mean temperature of the 5th and 6th averaged about 30°, and on various other dates the changes from day to day ranged from 8° to 15°. There were three distinct cold periods: the first, in the nature of a cold wave, crossed the State on the 6th, and occasioned minimum temperatures on the morning of the 7th as low, or lower, than have ever been recorded during any previous March, with freezing temperatures to the coast. The second period occurred on the 17th, with freezing temperatures to within 50 miles, or less, of the coast, and with killing frost over the whole State. The third period occurred on the 22d, with freezing temperatures over the western half of the State, and heavy frost to the coast.

There was slightly more than the average amount of bright sunshine, and there were many windy days, with the prevailing winds westerly to southerly.

The precipitation was excessive over the extreme western portion, where localities had double the usual amount, with decreasing amounts toward the south, central, and southeastern counties, where there were slight deficiencies. Although there was a general rain on the 10th, the month was dry up to the 20th, after which date rains were frequent, and heavy on the 25-26th causing floods in the up-country streams, and damaging plowed lands and terraced hillsides.

These conditions were favorable to the preparation of lands for planting up to the 20th, and general farm work had made rapid progress being at that date further advanced than usual, but the wet weather after the 20th delayed seeding operations, so that less corn, cotton, and minor crops were actually planted by the close of the month than is usual to the season.

Germination was slow and unsatisfactory owing to the coldness of the soil. Vegetation was backward, and trees that are usually in full leafage early in March were scarcely showing green at the close of the month. Fruit trees were also

late in blooming, and this, no doubt, giving them immunity from the freezing weather of the first and second decades, so that the fruit prospects were unimpaired or only slightly injured.

Wheat and fall sown oats made but little growth, although otherwise promising. The freeze on the 6th and 7th damaged oats in places. The prevailing weather was too cold for the best interest of the coast truck raisers, and the growth of truck is from one to two weeks later than usual.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for the month of March, 1901, was 53.4°, which is 1.3° below the normal. The highest local mean was 56.8° at Beaufort; the lowest 47.7° at Greenville. The highest temperature for the month was 86° at Gillisonville on the 25th; the lowest 10° at Liberty on the 7th, making the State range 76°. The greatest local monthly range was 67° at Gillisonville, the least 50° at Charleston. The mean of the daily maximum temperatures was 64.9°; of the daily minimum temperatures 41.9°.

Frosts, Killing.—Killing frosts were general over the State on the 6-7-17th, and over the central and western portions on the 22d.

Precipitation, in Inches.

The average precipitation for March, 1901, was 4.36 inches, which is 0.80 of an inch above the normal. The greatest local monthly amount was 8.68 inches at Greenville and Liberty; the least 2.27 inches at Pinopolis and Yemassee. The greatest 24-hourly fall was 6.71 inches at Yorkville on the 25-26th. The average number of days with rain was 8 ranging from 4 at Georgetown to 12 at Charleston and Columbia.

Excessive Precipitation.—On 25th: Clemson College, 2.80 in 12 hours; Darlington, 2.75 in 24 hours; Society Hill, 2.55 in 24 hours; Winnsboro, 2.50 in 24 hours. On 25-26th: Batesburg, 2.55 in 21 hours; Calhoun Falls, 3.99 in 24 hours; Camden, 5.09 in 24 hours; Cheraw, 2.91 in 18 hours; Columbia, 2.83 in 25 hours; Gaffney, 2.58 in 24 hours; Greenville, 5.35 in 24 hours; Greenwood, 3.12 in 19 hours; Liberty, 3.94 in 16 hours; Little Mountain, 2.88 in 21 hours; Longshore, 3.07 in 24 hours; Santuc, 3.54 in 24 hours; Spartanburg, 4.39 in 18 hours 30 minutes; Walhalla, 5.47 in 20 hours 30 minutes; Winthrop College, 3.87 in 19 hours; Yorkville, 6.71 in 24 hours.

Snow.—Walhalla, trace on 15th.

Sleet.—Walhalla, trace on 1st.

Hail.—Clemson College, 10th; Darlington, Spartanburg, Yorkville, 25th; Liberty, 9-25th; Longshore, 26th; Shaws Fork, 14-25th.

Weather.—Average number of clear days 14, of partly cloudy days 8, and of cloudy days 9.



Winds.—The prevailing direction of the wind was from the southwest at 20 stations, from the west at 11 stations, from the south at 8 stations, from the northwest at 4 stations, and from the east at 1 station.

High Winds.—Beaufort, 9, 10, 20; Blackville, 5, 10; Charleston, 26; Columbia, 5, 11, 26; Darlington, 25 (tornado); Gillisonville, 4, 8, 9, 10, 11, 27; Liberty, 11, 13, 14, 31; Little Mountain, Trenton, 11; Longshore, 5, 11, 21, 25; Shaws Fork, 5, 11, 16; Statesburg, 10; Walhalla, 3, 5, 11, 13, 14, 15, 16, 18, 19, 20, 21, 26, 27.

#### MISCELLANEOUS PHENOMENA (with dates).

Lunar Corona.—Santuc, 17.

Parhelio.—Longshore, 24; Santuc, 23, 29.

Solar Halos.—Charleston, 1, 9, 10, 12, 13, 19, 25; Santuc, 17.

Lunar Halos.—Blackville, Shaws Fork, Statesburg, 1; Charleston, 12; Gillisonville, 4, 25, 29; Little Mountain, 1, 5.

Fogs, Dense.—Gillisonville, 2; Liberty, 24, 25; Statesburg, 25.

Thunderstorms.—Beaufort, 10, 23, 25, 30; Blackville, 10, 25, 26, 30; Charleston, 10, 20, 25; Cheraw, Columbia, Greenville, Liberty, Longshore, Statesburg, Trenton, Winthrop College, 10, 25, 26; Darlington, McColl, Temperance, 25; Gillisonville, 10, 13, 25, 26, 30; Little Mountain, Trial, 10; Shaws Fork, 14, 25, 26; Smiths Mills, 10, 21, 25, 26; Society Hill, Walhalla, 10, 25; Spartanburg, 25, 26; Yorkville, 10, 11, 25, 26.

#### ERRATA.

In January monthly report, on page 5, St. George, total precipitation, 2.83, should be 3.22; on page 8, St. George, precipitation on the 31st, 0.22, should be 0.62, and the total, 2.83, should be 3.22.

#### REMARKS BY OBSERVERS.

Summerville.—Mean relative humidity for March 68 per centum. Prof. Jno. Gadsden.

Walhalla.—On the 25th there was 0.50 inch of rain in 25 minutes, and 1.20 inches in 30 minutes.—S. M. Pagan.

Shaws Fork.—First whippoor-will heard on the 29th. First sand-flies appeared on the 19th. Considerable early corn planted during the month.—Geo. H. Atwood.

Batesburg.—It was very windy during the first part of the month, although favorable for farm work, which made rapid progress.—E. J. Hite.

Longshore.—First peach bloom on the 12th. Sundogs on

the 24th. On the 25th there was a heavy rain, with hail. A tornado passed north of station.—W. G. Peterson.

Winthrop College.—Most of the precipitation on the 25th (1.18) fell between 4.20 and 5.00 p. m. During the night of the 25-26th there was a great deal of lightning and some thunder.—Dr. Cleveland Abbe, Jr.

Santuc.—The severe cold on the 6th and 7th killed many fall oats, and destroyed the vitality of many germinating spring oats. The rains of the 25-26th damaged both uplands and bottomlands.—E. W. Jeter.

Darlington.—On the 25th there was a tornado about three miles northwest of Darlington, that was very destructive, and that blew down a number of trees and a number of houses, and injured six people, one of whom was killed.—E. R. McIver.

Greenville.—Thunder and rain at 9.30 a. m., and again at 6 p. m., on the 10th. Much thunder and hail, with dense fog, in the evening of the 25th. The thunder was continuous from 2 to 8 p. m. Three inches of rain fell in three hours.—Mrs. S. A. Crittenden.

Trenton.—Fair prospects for a fruit crop at the end of March. Small grain is doing well. Precipitation 0.10 inch less than the 8-year average for March, and 3.38 inches less than the 8-year average for the first 3 months of the year.—C. A. Long.

Liberty.—Farm work was well advanced until the 10th; after that date but little plowing was done. But little corn has been planted. Peaches are not yet in full bloom, but fruit prospects are good. Wheat and oats are growing rapidly. Land were badly washed on the 25th.—Jno. T. Boggs.

Spartanburg.—The heavy rain on the 25th, began at 2.30 p. m. and continued all afternoon and ended by 8 a. m. of 26th. The rainfall during this time amounted to 4.35 inches. At 3.40 p. m. hail fell for about 10 minutes. There was vivid lightning during the storm.—F. P. Robinson.

Gillisonville.—Two-thirds of the month unfavorable, it having been cold, wet, and with frequent high, cold winds. The major portion of corn, sugar cane, and potatoes has been planted. Peach, pear, and plum trees in full bloom. Grain looks promising. All field work well advanced and soil in fair condition.—Sam P. Saltus.

Beaufort.—Mean temperature about normal. Precipitation 0.87 below normal, but was so divided that it was sufficient. Early truck looks well, but is later than usual. General crops are already planted or are being planted. First blooms noted as follows: 11th, peaches; 13th, jassamine; 22d, peas; 27th, blackberries.—S. M. Benton.



CLIMATOLOGICAL DATA FOR THE MONTH OF MARCH, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record— years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observers.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.							
Allendale	Barnwell	186	13																						
Augusta, Ga.	Richmond	134	30	54.6	—1.0	80	25	23	7	34	5.60	+0.71	2.60		9	13	9	9	w.	Weather Bureau.					
Batesburg	Lexington	656	13	52.7		79	2	19	7	44	4.40		2.55		6	20	2	9	e.	E. J. Hite.					
Beaufort	Beaufort	28	15	56.8	—1.8	80	31	28	*6	34	2.30	—0.87	0.75		9	16	10	5	s.	S. M. Benton.					
Blackville	Barnwell	293	13	55.0	—1.8	83	25	20	7	43	3.59		1.19		11	10	16	5	sw.	G. D. C. Lange.					
Calhoun Falls	Abbeville	354	8								5.88	+1.97	3.99		6	17	0	14	nw.	P. J. Pfeiffer.					
Camden	Kershaw	222	35								6.49	+3.22	5.09		10	16	6	9	sw.	B. Ammons.					
Charleston	Charleston	48	32	56.5	0	79	31	29	7	25	2.40	—1.34	1.14		12	13	12	6	s.	Weather Bureau.					
Charlotte, N. C.	Mecklenburg	808	23	50.8	+1.0	75	26	16	7	39	5.48	+0.68	2.86		8	14	6	11	s.	Weather Bureau.					
Cheraw (1)	Chesterfield	114	13	53.8	—0.1	81	25	16	7	45	3.80	+0.33	2.91		8	14	4	13	s.	W. R. Godfrey.					
Cheraw (2)		108	8								3.64	+0.33	2.30		7	13	8	10	w.	Jno. H. Powe.					
Clemson College (a)	Oconee	850	10	48.6		76	3	12	6	41	6.18	+2.61	2.80		8	13	10	7	w.	Prof. C. C. Newman.					
Columbia	Richland	351	14	54.0	—0.2	81	25	20	7	34	4.50	—0.93	2.83		12	11	11	9	sw.	Central Office.					
Conway	Horry	49	10								5.34	+1.93	1.95		8	13	4	14	w.	P. Quattlebaum.					
Darlington	Darlington	175	6								4.45		2.75		9	14	12	5		E. R. McIver.					
Edisto	Bamberg	143	8								4.23	+0.61	1.77		8	12	7	12	sw.	Miss Jerry Carter.					
Effingham	Florence	106	9								2.73	—0.22	1.15		7	15	7	9	sw.	A. J. Howard.					
Florence	Florence	156	13	52.9	—3.0	80	25	22	7	43	3.07		1.20		6	12	8	11	s.	H. K. Gilbert.					
Gaffney	Cherokee		5								5.06		2.58		9	13	6	12	sw.	B. F. Camp.					
Georgetown	Georgetown	12	8	56.0	—2.0	79	10	22	7	48	4.27	+1.29	2.60		4	27	2	2	sw.	W. T. Turbeville.					
Gillisonville	Hampton		6	56.4	—3.7	86	25	19	7	43	3.68		1.12		8	16	4	11	s.	Sam P. Salts.					
Greenville	Greenville	1,000	9	47.7	—2.6	75	4	13	7	46	8.68	+4.62	5.35		10	17	2	12	nw.	Mrs. S. A. Crittenden.					
Greenwood	Greenwood	671	13	50.6	—2.9	75	4	17	7	42	4.24		3.12		7	14	1	16	w.	M. M. Calhoun.					
Horse Cove, N. C.	Macon	3,800	9	45.1	—0.7	68	3	5	6	31	10.14	+5.01	4.52	0.4	9	9	14	8	nw.	B. C. Hawkins.					
Holland	Anderson		13																	Mrs. J. Hanks.					
Kingstree (1)	Williamsburg	77	13	53.9		77	26	22	*7	42	3.24	+0.40	0.95		8	13	6	12		C. J. Lesesne.					
Kingstree (2)		77	7								3.18		1.52		8	12	7	12	w.	W. H. Matthews.					
Liberty	Pickens		7	49.5	—3.3	76	3	10	7	39	8.68		3.94		8	16	6	9	sw.	Jno. T. Boggs.					
Little Mountain	Newberry	711	8	54.0	—1.9	78	*3	18	7	36	4.15	+0.97	2.88		6	13	10	8	nw.	John M. Sease, M. D.					
Longshore	Newberry	530	8	52.6	—1.2	77	3	17	7	40	4.65	+0.58	3.07		7	11	7	13	w.	W. G. Peterson.					
McColl	Marlboro		1	54.1		79	25	12	6	43	3.09		2.25		6	18	8	5	s.	N. L. Thayer.					
Pinopolis	Berkeley		8	55.2	—0.8	76	*25	23	7		2.27	—1.65	0.95		5	13	11	7	nw.	E. P. Ravenel.					
Raleigh, N. C.	Wake		15	52.0	+2.0	76	24	16	7	37	2.96	—1.24	1.07		9	14	8	9	sw.	Weather Bureau.					
St. Georges	Dorchester	376	15	53.8	—3.9	82	26	21	7	42	2.66		1.30		10	13	6	12		W. B. Raysor.					
St. Matthews	Orangeburg	109	13	54.2	—1.7	80	26	20	7	44	2.88		1.40		10	13	7	11		J. S. Wannamaker.					
St. Stephens	Berkeley	254	9								4.17	+0.77	1.30		8	14	7	10	sw.	C. T. Shuler.					
Santee	Union	73	3								4.91	+1.26	3.54		7	10	11	10	w.	E. W. Jeter.					
Savannah, Ga.	Chatham	512	8	52.2	—0.8	78	3	12	7	42	4.31	—1.28	1.11		9	13	14	4	sw.	Weather Bureau.					
Shaws Fork	Aiken	71	32	57.9	—1.0	81	26	28	6	27	2.34		1.75		6	16	13	2	sw.	Geo. H. Atwood.					
Smiths Mills	Williamsburg	500	8								5.19		2.10		8	13	9	9	w.	H. van Keuren.					
Society Hill	Darlington	62	6								5.63		2.58		7	15	9	7	sw.	J. J. Lucas.					
Spartanburg	Spartanburg	192	10	53.8	—1.8	79	25	19	6	49	3.83	+0.48	2.58		7	15	9	7	sw.	J. J. Lucas.					
Statesburg	Spartanburg	875	10	50.0	—0.6	74	18	14	6	46	7.19	+4.01	4.39		10	15	5	11		F. P. Robinson.					
Summerville	Sumter	500	21	56.0	+1.9	82	25	20	6	33	3.75	+0.53	1.91		8	13	8	10	w.	W. W. Anderson, M. D.					
Summerville	Dorchester		4	55.8		80	26	20	6	42	3.00		1.08		8	14	10	7	sw.	Prof. Jno. Gadsden.					
Temperance (a)	Marion	100	3	53.0		79	25	17	6	53	3.14		1.05		6	15	11	4	w.	J. R. Reeves.					
Trenton	Edgefield	620	8	57.2	—0.6	79	3	24	7	28	4.27	—0.07	1.83		9	10	14	7	s.	C. A. Long.					
Trial	Berkeley		15	52.4	—3.0	77	*25	13	7	39	3.26	—0.66	1.05		9	9	12	10	sw.	Etsell Gaillard.					
Walhalla	Oconee		11	49.7	+0.8	77	3	11	6	37	8.24		5.47	T.	9	17	6	8	sw.	S. M. Pagan.					
Wilmington, N. C.	New Hanover	52	32	54.8	+1.0	77	25	21	7	32	3.95	+0.40	1.45		8	14	10	7	sw.	Weather Bureau.					
Winnboro	Fairfield	545	12	51.0	—1.4	78	25	18	6	41	3.89	+0.61	2.50		5	22	7	2	sw.	John W. Seigler.					
Winthrop College	York	690	2	52.2		76	*3	17	*6	36	3.99		3.87		8	14	6	11	sw.	Prof. Cleve'nd Abbe, jr.					
Yemassee	Beaufort	23	6	54.5		79	27	23	7	42	2.27		0.94		9	16	4	11		R. G. Smith.					
Yorkville	York	680	13	54.4	+1.1	79	*3	20	*6	39	8.13	+3.74	6.71		8	12	9	10	sw.	J. R. Schorb.					
MEANS—highest, lowest and dates, etc.				53.4	—1.3	86	25	10	7	53	4.36	+0.80	6.71	T.	8	14	8	9	sw.						

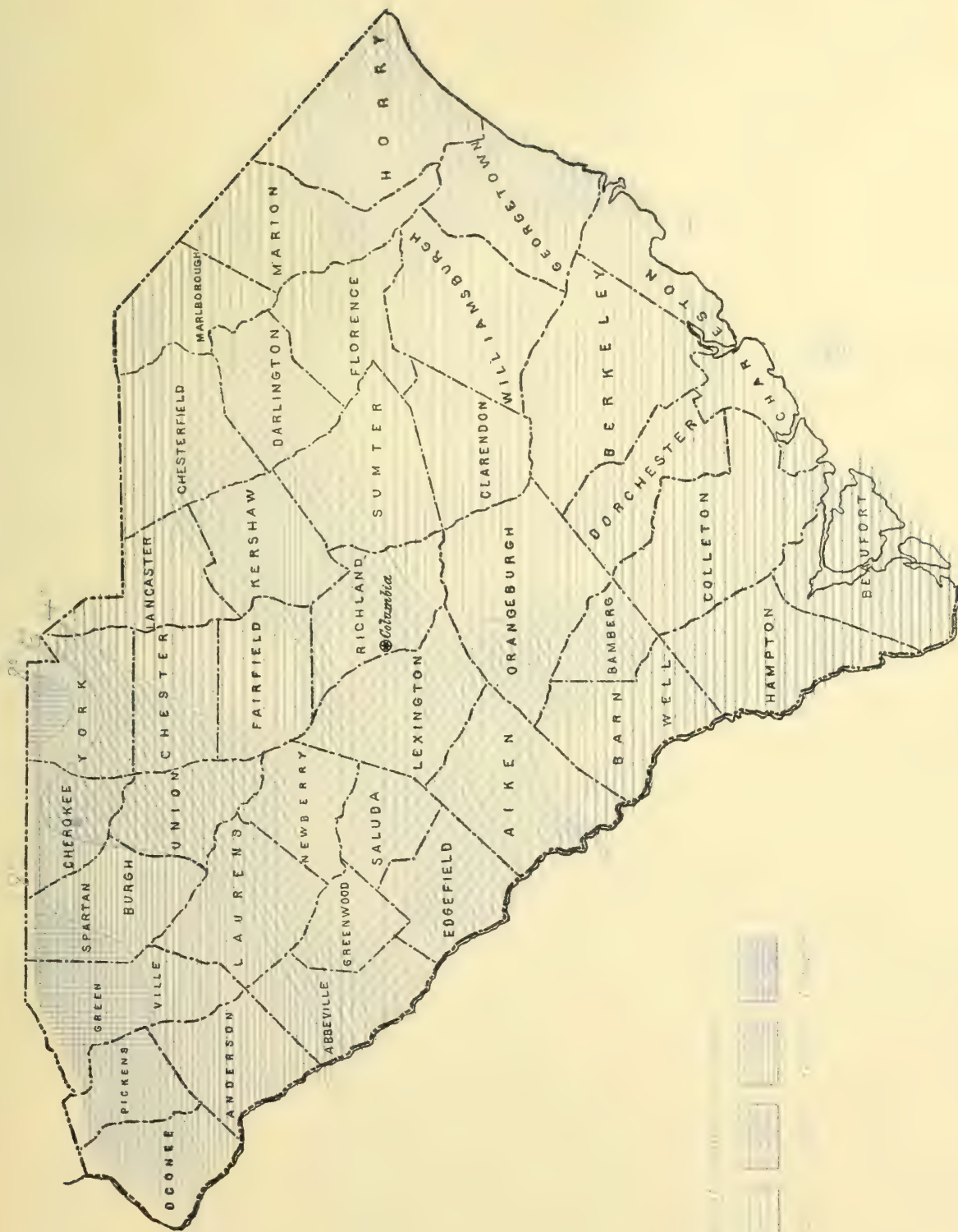
a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., and 9 and 2 p. m. observations.







TOTAL PRECIPITATION FOR MARCH 1901.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, MARCH, 1901.

STATIONS.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Allendale					T.					.83			.13							.27	T.		.20	.01	.20	2.60		T.		1.28	.07	5.60
Augusta, Ga.											.65										.40			.10		2.05	.50			.70		4.40
Batesburg					.11					.63			.24	.10						.26			.16	.04	.01					.75		2.30
Beaufort					.04					.70			.39	.02						.19			.24	.09	.27	.24				1.21		3.50
Blackville																																
Calhoun Falls										.72										.52			.35		*	3.99				.30		5.88
Camden										.55			.03	.02						.18			.25	.02	4.00	1.09				.35		6.49
Charleston					.01					.81			.08	.03						.56	.58		.06	.01	.01	.02				.11	.12	2.40
Charlotte, N. C									.22	.36	T.								.21	T.		.02	T.	1.56	2.86			T.	.24	.01	5.48	
Charlotte(1)										.50			T.	T.						.22			.08	.11	2.41	.40				.08		3.80
Cheraw(2)									T.	.41			T.	T.						.17			.09	.04	2.30	.54	T.		.09		3.64	
Clemson College	T.								.43	1.50										.40			*	.83	*	2.80				.22		6.18
Columbia										.58			.06	.01					.23	.04		.18	.09	.21	2.64		.01		.42	.03	4.50	
Conway									1.70				.10						.10	1.85		.18	.26	.85	.10				.20		5.34	
Darlington, near										.52			.02	.04					.43			.18	.19	2.75	.18				.14		4.45	
Edisto										.94			.25	.03					.19				.35	1.42	.65				.40		4.23	
Effingham										.85					T.	.10	1.05	.10		.16			.20	.10	1.05	.10			.27	1.75		
Florence										.78			.04										.80	.01	1.20	.10			.15		3.07	
Gaffney									.08	.28	1.51								.29			.14		2.56	.02				.18		5.06	
Georgetown					T.					1.15			.02						2.60				.50								4.27	
Gillisonville										1.12			.46	.02					.59			.20	.22		.06				1.01		3.68	
Greenville									.21	2.19									.33			*	.25	T.	5.35	.02			.33		8.68	
Greenwood										.45									.15			.24	*	2.55	.57				.28		4.24	
Horse Cove, N. C.	.06				.13	T.			1.18	.69			T.		T.	T.			2.45			.61	P.	4.52	.02		T.	T.	.48		10.14	
Holland																																
Kingstree(1)											.45			.36							.07				.56	.95	.09		.06		.70	3.24
Kingstree(2)										.42			.34						.08				.55	.97	.10		.05		.67		3.18	
Liberty	T.		T.						.75	1.60	1.35			.03					.49			.20	T.	2.84	1.10			.35		8.68		
Little Mountain										.68												.24		1.03	1.85		T.		.32		4.15	
Longshore										.69									.37			.21		1.95	1.12		T.	.06	.25		4.65	
McColl					T.				T.	.50			T.	T.					.08	.13			.13	.55	1.70		T.		T.		3.09	
Pinopolis													.12						.95			.01	.37					.80		2.27		
Raleigh, N. C.					T.				.07	.24	.12		T.						.44	.17		.12	.03	1.07	.65			.17		2.96		
St. Georges									.01	.40			.03	T.					.18			.12	.08	1.30	.45	T.		.09		2.66		
St. Matthews									T.	.44			.05	T.					.22			.16	.10	1.40	.35	.01		.15		2.88		
St. Stephens																																
Santee									.05	.65									.33			.09		1.22	2.32		T.		.25		4.91	
Savannah, Ga.					.05				T.	.35	T.		.19	T.					.31	.02		.21	.07	T.	T.			.03	1.11	2.34		
Shaws Fork													.85	T.							1.30		.35	*	1.75			.94		5.19		
Smiths Mills					T.					1.20			.18						2.10			.25	.80	.70	.10			.30		5.63		
Society Hill										.51									.25			.18	.12	2.58	.04			.15		3.83		
Spartanburg									.50	1.55									.35			.15	.04	4.35	.04			.21		7.19		
Statesburg					T.					.73			.07	T.					.40			.22	.12	.33	1.60		T.		.26		3.75	
Summerville										1.08			.14	.04					.71			.09	.36					.01	.57		3.00	
Temperance										1.05			T.						.60			.14	.28	.94	T.			.13		3.14		
Trenton										.61			.10	T.					.42			.23	.08	.06	1.83			.89	.05	4.27		
Trial										1.05			.20	T.					.10			.04	.36	.20	.37			.91		3.26		
Walhalla	T.				.03				*	1.60									.60			*	.37	*	5.47			.20		8.24		
Wilmington, N. C.										.02	1.45		T.	T.					.75	.72			.02	.09	.90		T.		T.	.03	3.98	
Winnsboro										.56									.26	T.		.29	T.	2.50	T.			.28		3.89		
Winthrop College									.06	.44									.03	.29		.04		1.18	1.69			.26		3.99		
Yemassee					.02				T.	.41			.16	T.					.45			.18	.05	.03	T.			.97		2.27		
Yorkville									.12	.58	.12								.27				.05		1.71	5.00		.28		8.13		

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR APRIL, 1901.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

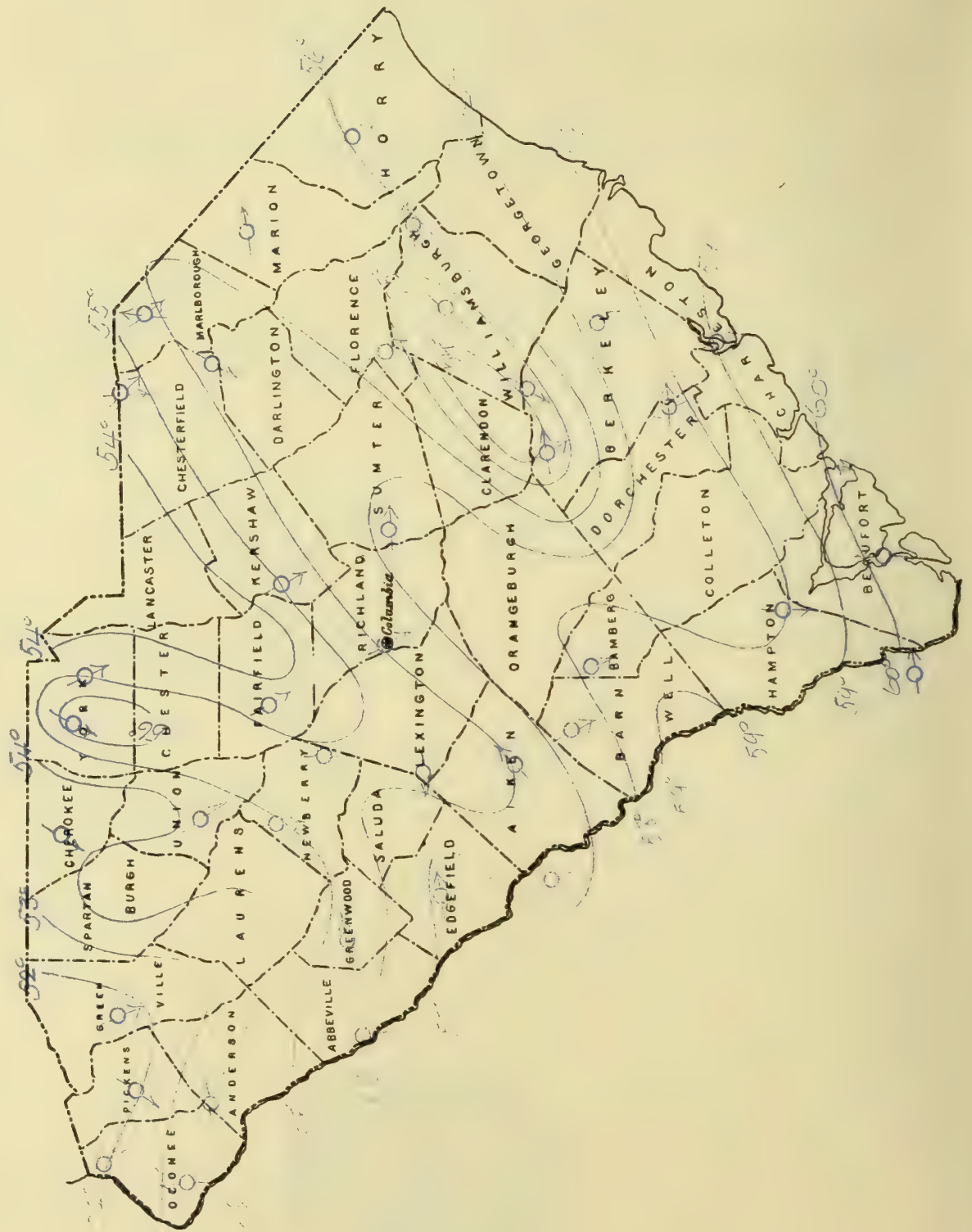


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., APRIL, 1901.

No. 4.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for the month of April, 1901, was 56.0°, which is 6.2° below the normal. The highest local mean was 60.5° at Beaufort; the lowest 51.7° at Greenville. The highest temperature was 89° at Spartanburg on the 30th; the lowest 30° at Liberty on the 4th, making the State range 59°. The greatest local range was 57° at Clemson College; the least 33° at Charleston. The mean of the daily maximum temperatures was 66.5°; of the daily minimum temperatures 45.4°.

Frosts, Killing.—Liberty 4th, McColl 24th, Shaw's Fork, Longshore, Trial 22d.

Frosts, Light.—Batesburg, Gillisonville 22d, Blackville 8th, Camden, Cheraw, Conway, Edisto, Effingham, Gaffney, Kingstree, St. George, St. Matthews, St. Stephens, Smith Mills, Yemassee 22-29th, Charleston, Statesburg 4-22d, Clemson College 8-11-23-24th, Columbia 4th, Liberty, Yorkville 24th, Little Mountain 2-4-10-22-28th, Longshore 4-7-8-9-10-15-16-24-25-26th, McColl 12-25-29th, Trenton 4-24th, Temperance 7-8-9-10-11th.

## Precipitation, in Inches.

The average precipitation was 5.03 inches, which is 2.00 inches above the normal. The greatest local amount was 10.58 inches at Yorkville; the least 1.64 inches at Charleston. The greatest 24-hourly fall was 4.34 inches at Yorkville on the 19th. The average number of days with rain was 7, ranging from 3 at Beaufort and Gillisonville to 11 at Camden and Columbia.

Excessive Precipitation.—Batesburg, 19-20th, 2.95 in 12 hours; Calhoun Falls, 1-2d, 4.14 in 30 hours; Camden, 20-21st, 3.42 in 24 hours; Effingham, 2-3d, 2.90 in 24 hours; Gillisonville, 2d, 1.18 in 3.45 hours; Greenville, 1-2d, 3.48 in 27 hours; Greenwood, 1-2d, 3.26 in 32 hours; Liberty, 1-2d, 4.10 in 24 hours; Little Mountain, 1-2d, 3.50 in 24 hours; Longshore, 1-2d, 2.76 in 24 hours; St. Matthews, 19-20th, 2.50 in 24 hours; Santuc, 1-2d, 2.76 in 24 hours; Shaw's Fork, 19th, 3.35 in 10.50 hours; Statesburg, 19th, 3.73 in 13.20 hours; Summer-ville, 2d, 2.60 in 24 hours; Trenton, 2d, 2.93 in 24 hours;

Winnsboro, 2d, 3.00 in 24 hours; Yorkville, 1-2d, 4.00 in 24 hours and on the 19th 4.34 in 24 hours.

Hail.—Santuc 1st, Spartanburg (2 days).

Sleet.—Gillisonville, 13-20th; Greenville, Longshore, 20th.

Snow.—(Trace) Greenville, 20-22d; Liberty, 20-21-22; Walhalla, Winthrop College, 21st.

Weather.—Average number of days clear 15, partly cloudy 4, cloudy 9.

Winds.—The prevailing direction of the wind was from the northwest at 18 stations, from the west at 9 stations, from the northeast at 8 stations, from the north at 4 stations, from the southeast, south, and southwest at 2 stations each, and from the east at 1 station.

High Winds.—Beaufort, 13-19-27th; Charleston, 19th; Gillisonville, 2-14-19-20th; Liberty, 3-6th; Little Mountain, 18th; Longshore, 2-19th; Walhalla, 2-3-6-7-8-14-15-20-21-25th; Winthrop College, 3d.

## MISCELLANEOUS PHENOMENA (with dates).

Lunar Halos.—Santuc, 5.

Solar Halos.—Charleston, 12, 17, 18; Santuc, Statesburg, 12, 17; Trial, 4, 29.

Fogs, Dense.—Blackville, 8; Gillisonville, 12; Liberty, 24.

Thunderstorms.—Beaufort, Charleston, Gillisonville, Statesburg, 2, 13, 19; Blackville, Shaws Fork, Society Hill, 13; Cheraw, 14, 20; Liberty, 1; Little Mountain, Santuc, Trial, Winthrop College, 2; Longshore, 2, 13; Walhalla, 27.

## CLIMATE AND CROPS.

The month of April, 1901, was the coolest of record since 1888, but notwithstanding the low average temperature, at a few points only did killing frosts occur. There were frequent light frosts, and their effects were decidedly harmful on young and tender vegetation, killing some cotton and checking the growth of field crops that were just coming up. The nights were uniformly cool and unfavorable for the germination of seeds, and the growth of vegetation.

The precipitation was largely in excess of the normal over the western half of the State, but was only slightly excessive or slightly deficient over the eastern half. The heavy rains caused the surface of plowed lands to become impacted, and, as it dried, to become crusted and hard.

The weather conditions on the whole were unfavorable for farmwork and plant growth. The former was greatly delayed by the excessive moisture, and the latter by the prevailing low temperature. Some cotton seed planted previous to the 15th, rotted in the ground, and much of what did come up was killed by the cold weather, so that more than the usual amount of replanting became necessary. The same conditions apply to corn, only to a less damaging extent. Tobacco plants in beds were small, although about the usual amount



of transplanting was accomplished. Rice planting was finished. Melons, gardens and other minor crops were also adversely affected by the prevailing weather. Peaches, pears and plums suffered but little and continued promising, although in many places the fruit prospects were impaired to a considerable extent.

#### REMARKS BY OBSERVERS.

Longshore.—The month was cold and wet, and unfavorable for farmwork.—W. G. Peterson.

Shaw's Fork.—Frost on the morning of the 22d killed a little cotton and some corn.—Geo. H. Atwood.

Spartanburg.—On two days during the month there was light hail, record of dates accidentally lost.—F. P. Robinson.

Statesburg.—Swallows heard on the 7th; 9th, humming bird appeared to-day; 24th, large brown flycatcher.—W. W. Anderson, M. D.

Santuc.—There were several light frosts, but no damage to crops resulted. Clouds prevented killing frosts on the 21-22.—E. W. Jeter.

Society Hill.—The cool, windy weather that usually prevails in March, extended throughout April and was disastrous to cotton, corn, and vegetables. All vegetation very backward.—Maj. J. J. Lucas.

Greenville.—On the 20th there were light flurries of sleet and snow between 6 and 7 a. m., and several times later in the day. On the 22d there was a light flurry of snow at 7.30 a. m.—Mrs. S. A. Crittenden.

Batesburg.—Month unfavorable for farm work. Some cotton killed by light frost on 21st, has been replanted. There was an unusually heavy rain on 20th, 2.95 inches having fallen in less than 12 hours.—E. J. Hite.

Summerville.—Unusually backward spring. Summer birds were not seen until the 15th. Minimum thermometer fell below 43° on 7 days. The mean maximum temperature was 6.8°, and the mean minimum 7.8° lower than for the same month in 1900.—Prof. Jno. Gadsden.

Beaufort.—The mean temperature was 5.2° below the normal; rainfall 1.22 inches above. It has been a cool and backward season. Oats look fairly well. Green peas have done well, and large quantities were shipped by the close of the month.—S. M. Benton.

Liberty.—April was a peculiar month. The direction of the wind remained constant for several days at a time. The fruit crop escaped injury. Small grain crops look well. General

field crops coming up to stands slowly, and much replanting is necessary.—Jno. T. Boggs.

Trenton.—Precipitation 2.60 inches more than the 8-year average for April, and 0.78 less than the 8-year average for the first 4 months of the year. Three-fourths of the cotton crop was replanted; the seeds sprouted, but it was so cold the plants did not come up.—C. A. Long.

Gillisonville.—There were brisk, cold winds during the entire month causing rapid evaporation of moisture from the soil. Weather conditions unfavorable for germination and growth, and early planted corn and cotton were killed or stunted. The month was warm at its close, and corn had received its first cultivation.—Sam P. Saltus.

Winthrop College.—On the 27th a brilliant green meteor was noted at 11.55 p. m., in the tail of Scorpio—eastward and downward. On the 10th, at about 11.30 p. m., two distinct shocks of earthquake were felt, being separated by an interval of 10-15 seconds. The direction seemed to be from east towards the west, and the force was sufficient to rattle the windows of the brick dormitory.—Dr. Cleveland Abble, Jr.

#### EDITORIAL NOTE.

A part of Census Bulletin No. 58, recently issued, is devoted to the production of cotton in South Carolina, in 1899, by counties, and shows that Orangeburg county produced 62,071 bales. This exceeds the next largest county yield by 10,667 bales, Sumter county having produced 51,404.

It does not necessarily follow from the above that Orangeburg's soil is the best adapted to the cultivation of cotton, or produced the largest yield per acre, which is the true test of productiveness. The acreage devoted to cotton is not given in the bulletin, but dividing the number of bales raised in each county by its area in square miles gives the number of bales per square mile. This was done for every county and the result of the computation shows that 75.6 bales per square miles were produced in Marlboro county, and characterizes that as the leading cotton producing county in the State. Sumter county come second with 59.8 bales per square mile, while Orangeburg ranks sixth, having raised only 46.1 bales to the same unit of area, being outranked by the two counties already mentioned and also by Anderson with 50.9, Laurens with 52.5, Greenwood 53.8, and Bamberg with 57.4.

Georgetown county ranks lowest with 1.6 bales per square mile. In six counties the production per square mile was 0 to 10 bales, in six 11 to 20, in eight 21 to 30, in nine 31 to 40, in five 41 to 50, in five 51 to 60, and in one only over 60.

The weather during 1899 was not altogether favorable for the production of cotton, there having been a severe drought over a large portion of the western half of the State, that lasted well into September. The following summary of crop yields taken from the Annual Report, South Carolina Section Climate and Crop Service of the Weather Bureau was verified by later investigations, and has an important bearing of the above data: "In the comparative scale of 'poor,' 'good,' and 'full' yields, the year 1899 will rank as having produced 'poor' crops in the State as a whole, 'good' over quite large areas, and 'full' in limited localities, generally in the east-central counties."



CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1901.																			
STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
Allendale	Barnwell	186	13	59.2	—5.3	79	18	36	22	31	2.90	+0.89	1.10		4	22	1	7	
Augusta, Ga.	Richmond	134	30	56.3	—7.7	83	30	38	22	37	3.86	+0.30	1.39		10	17	4	9	Weather Bureau.
Batesburg	Lexington	656	13	54.6	—8.0	80	30	36	*22	31	6.47	+4.29	2.95		8	19	5	6	E. J. Hite.
Beaufort	Beaufort	28	15	60.5	—5.2	83	30	43	*4	32	3.11	+1.22	1.20		3	18	7	5	S. M. Benton.
Blackville	Barnwell	293	13	57.2	—6.8	84	30	33	22	38	3.91	+0.58	1.41		9	16	8	6	G. D. C. Lange.
Calhoun Falls	Abbeville	354	8								7.13	+3.54	3.30		7	20	0	10	P. J. Pfeiffer.
Camden	Kershaw	222	35								5.14	+2.17	3.42		11	14	8	8	B. Ammons.
Charleston	Charleston	48	32	59.3	—5.7	74	25	41	21	22	1.64	—1.70	0.72		6	14	11	5	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	23	53.6	—5.4	83	30	32	21	29	7.25	+3.60	2.99		9	13	5	12	Weather Bureau.
Cheraw (1)	Chesterfield	114	13	54.6	—7.2	77	30	37	*11	35	4.51	+1.48	1.35		8	14	5	11	W. R. Godfrey.
Cheraw (2)		108	8								4.63	+0.95	1.49		9	13	8	9	Jno. H. Powe.
Clemson College (a)	Oconee	850	10	54.0		88	30	31	20	39	6.69	+3.63	1.74		9	11	11	8	Prof. C. C. Newman.
Columbia	Richland	351	14	56.2	—7.4	83	30	37	21	34	4.04	+1.26	1.74		11	14	4	12	Central Office.
Conway	Horry	49	10								3.20	+0.73	1.40		4	15	6	9	P. Quattlebaum.
Darlington	Darlington	175	6								4.18		1.50		8	11	12	7	E. R. McIver.
Edisto	Bamberg	143	8								3.99	+0.40	1.75		8	15	8	7	Miss Jerry Carter.
Effingham	Florence	106	9								4.84	+2.36	2.90		7	13	7	10	A. J. Howard.
Florence	Florence	156	13	56.3	—5.7	79	30	39	30	30	7.74	+2.13	1.60		8	14	4	12	H. K. Gilbert.
Gaffney	Cherokee		5								4.74		2.42		9	13	6	11	B. F. Camp.
Georgetown	Georgetown	12	8	59.6	—3.4	84	30	40	21	30	2.95	—0.45	1.10		4	24	3	3	W. T. Turbeville.
Gillisonville	Hampton		6	57.5	—6.7	84	30	34	22	40	4.06		1.92		3	16	5	9	Sam P. Saltus.
Greenville	Greenville	1,000	9	51.7	—6.0	78	30	34	*20	35	7.13	+3.79	1.98	T.	10	17	4	9	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	13	53.5	—7.8	76	30	33	22	29	6.48	+3.30	2.79		9	17	2	11	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	9																B. C. Hawkins.
Holland	Anderson		13																Mrs. J. Hanks.
Kingstree (1)	Williamsburg	77	13	56.4	—6.7	76	*17	38	*21	31	2.76	+0.35	1.75		6	16	6	8	C. J. Lesesne.
Kingstree (2)		77	7								2.92		1.87		6	16	6	8	W. H. Matthews.
Liberty	Pickens		7	52.0	—7.9	81	29	30	4	40	8.07		4.10	T.	6	17	3	10	Jno. T. Boggs.
Little Mountain	Newberry	711	8	55.7	—6.4	84	30	34	22	34	8.11	+4.12	3.50		8	12	11	7	John M. Sease, M. D.
Long-hore	Newberry	530	8	54.5	—5.9	85	30	32	22	35	7.42	+3.82	2.76	T.	10	9	8	13	W. G. Peterson.
McColl	Marlboro		1	56.5		86	30	35	12	42	3.29		0.77		8	19	3	8	N. L. Thayer.
Pinopolis	Berkeley		8	57.3	—4.5	77	30	38	23		4.16	+0.75	2.30		5	15	5	10	E. P. Ravenel.
Raleigh, N. C.	Wake	376	15	53.4	—5.7	82	30	35	21	33	5.55	+2.06	3.37		9	13	8	9	Weather Bureau.
St. Georges	Dorchester	109	13	57.0	—6.7	76	*25	36	22	30	4.73	+2.48	2.05		8	13	8	9	W. B. Raysor.
St. Matthews	Orangeburg	254	13	57.6	—6.4	76	29	38	22	30	4.57	+1.13	2.50		7	14	7	9	J. S. Wannamaker.
St. Stephens	Berkeley	73	9								3.11	+0.66	1.50		4	14	8	8	C. T. Shuler.
Santuc	Union	512	8	53.6	—6.2	85	30	34	*4	43	6.78	+3.21	2.76		8	12	8	10	E. W. Jeter.
Savannah, Ga.	Chatham	71	32	60.6	—5.4	78	30	44	4	25	1.91	—1.40	1.12		6	15	7	8	Weather Bureau.
Shaws Fork	Aiken	500	8			82	30				5.30		3.35		6	13	9	8	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	6								4.08		1.70		6	14	9	7	H. van Keuren.
Society Hill	Darlington	192	10	56.0	—6.2	86	30	38	*20	31	3.63	—0.82	1.34		9	12	8	10	W. J. Lucas.
Spartanburg	Spartanburg	875	10	54.8	—6.1	89	30	35	21	37	7.29	+3.97	1.75		9	16	2	12	F. P. Robinson.
Statesburg	Sumter	500	21	57.2	—5.5	83	30	37	21	32	6.36	+3.60	3.73		7	15	3	12	W. W. Anderson, M. D.
Summerville	Dorchester		4	57.6		79	30	35	21	31	4.50		2.60		7	16	8	6	Prof. Jno. Gadsden.
Temperance	Marion	100	3	55.4		85	30	37	23	38	4.78		2.13		7	18	4	8	J. R. Reaves.
Trenton	Edgefield	620	8	57.8	—6.9	81	30	38	22	24	6.73	+2.98	2.93		8	16	6	8	C. A. Long.
Trials	Berkeley		15	53.8	—8.3	78	30	33	22	36	3.07	+0.73	1.41		5	10	12	8	Etsell Gaillard.
Walhalla	Oconee	1,061	11	53.0	—6.5	86	30	33	10	39	7.55		2.25	T.	7	16	6	8	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	32	55.9	—6.1	75	30	39	21	28	2.00	—0.82	0.86		6	14	9	7	Weather Bureau.
Winnboro	Fairfield	545	12	53.7	—8.2	80	30	35	*2	30	6.59	+4.53	3.00		7	17	11	2	John W. Seigler.
Winthrop College	York	690	2	54.0		83	30	34	21	33	7.19		2.00	T.	6	15	3	12	Prof. Cleve'nd Abbe, jr.
Yemassee	Beaufort	23	6	57.6		75	18	41	22	28	3.45		1.42		6	14	7	9	R. G. Smith.
Yorkville	York	680	13	56.3	—5.2	88	30	36	21	35	10.58	+7.73	4.34	T.	9	9	11	10	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				56.0	—6.2	89	30	30	4	43	5.03	+2.00	4.34	T.	7	15	6	9	nw.

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

† Mean from 7 a. m., and 9 and 2 p. m. observations.

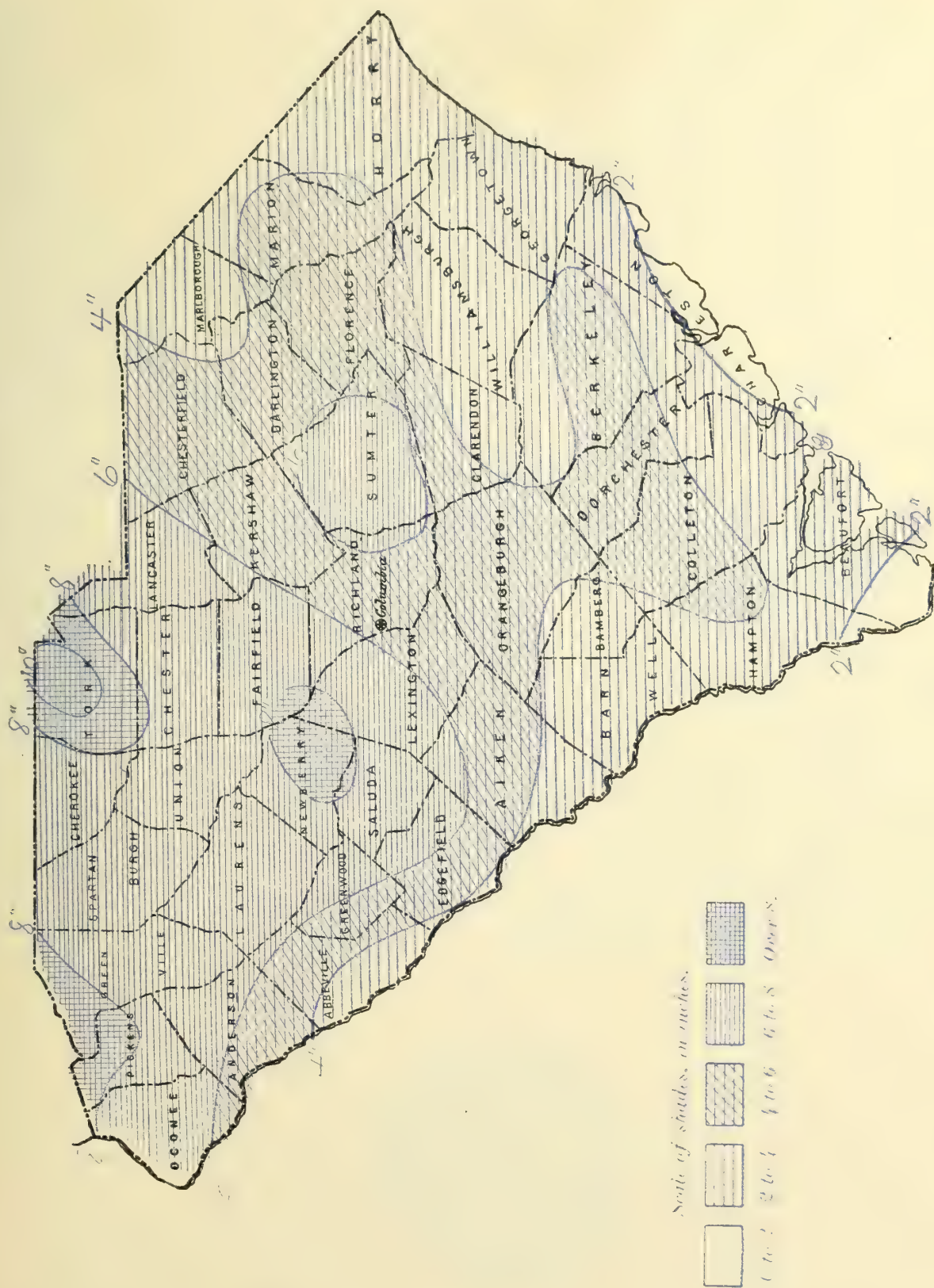


### STATIONS.

[illegible]



# TOTAL PRECIPITATION FOR APRIL, 1901.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1901.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Allendale		1.10											*	.65					.50	.65												2.90	
Augusta, Ga.	T.	1.39	.03			.03							.86	T.					1.37	.05	.02		.11									3.86	
Batesburg		.05	2.02			T.							.05	.90					.15	2.95	.10		.25									6.47	
Beaufort	T.	1.18											.73					1.20														3.11	
Blackville		.01	.75		.01								.13	1.41					.51	.98	.05		.06									3.01	
Calhoun Falls	.84	3.30											1.41						.45	.80		*	.33									7.13	
Camden		.13	1.24			.05							.01	1.03	.05				.06	2.36	.06		.14	.01								5.14	
Charleston		.53	.19			.03							.16	.02				T.	.71	T.												1.64	
Charlotte, N. C	.07	2.99	.03		T.	T.							.96	.11				1.75	.95	.10	T.	.29										7.25	
Cheraw(1)		.13	1.02			.06							1.31						T.	1.35	.29		.20	.15								4.51	
Cheraw(2)		.08	1.04			.05							.01	1.48					T.	1.38	.27		.19	.13								4.63	
Clemson College	1.63	1.23			.16							.30	1.44					.54	1.30			.06	.03									6.60	
Columbia	.05	1.37	.11			.04							.34	.09					1.74	.11	.08		.09	.02								4.04	
Conway	T.	1.30			.10								1.40						.40													3.20	
Darlington, near	.20	1.40			.03								1.50						.65	.20		.13	.07									4.18	
Edisto	.10	1.75											.04	.29					.28	1.35	.04		.14									3.99	
Effingham	.03	.20	2.90										T.	.85					T.	.50	.20		.16									4.84	
Florence		.35	1.65			.10							.18	.80					T.	.53	.15	.12	.04									4.74	
Gaffney	1.37	1.40		T.									.10	1.55					.50	2.40	.02	T.	.10	.20								7.64	
Georgetown		.75											.90						1.10	.20												2.95	
Gillisonville		1.18											.96						1.92	T.												4.06	
Greenville	1.98	1.50			.12							.25	1.65						.55	.90	.02	T.	.11	.05								7.13	
Greenwood	.47	2.79			.10								.25	1.28					.56	.80	.03		.20									6.48	
Horse Cove, N. C																																	
Holland																																	
Kingstree(1)	T.	1.75			.12								.01	.50					T.	.28	.10		T.									2.76	
Kingstree(2)	T.	1.87			.10								.03	.52					T.	.29	.11		T.									2.92	
Liberty	.20	4.10			.20								1.85						1.22	.50		T.	T.									8.07	
Little Mountain	.30	3.50											.85	.19					2.25	1.00	.12		.20									8.11	
Longshore	.35	2.76			.04								.18	1.85					1.44	.22		.21	.07									7.42	
McColl	.02	.42	.73		T.	T.	T.						.43	.52					.18	.77		T.	.22									3.29	
Pinopolis	.20	3.30			.01								1.10	.10					1.10	.10												4.16	
Raleigh, N. C.	.23	1.06			.07								.23	.84					T.	.53	.10	T.	.40	.01	T.							5.55	
St. Georges	.18				.03								.10	.19					.25	2.05	.25		.06									4.73	
St. Matthews	.20	.30											.25						1.02	2.50	.25		.05									4.57	
St. Stephens	.15	.50			.16								.46						.99													3.11	
Santuc	.20	2.76			T.								.72	.35					T.	.27	.32	.10	T.	.16								6.78	
Savannah, Ga.	T.	.33	.12			.01							.30	.03					1.12														1.91
Shaws Fork		1.02				T.							.62						3.35	.05	.09		.17									5.30	
Smiths Mills	.40	1.30											1.00						.80	.46		.12											4.08
Society Hill	.15	.92			.02								.02	1.34					.73	.19		.20	.06									3.63	
Spartanburg	1.60	1.50											.15	1.95					.60	1.47	.06		.11	.05								7.29	
Statesburg	.01	.99			.10								1.32						3.73	.15		.06										6.36	
Summerville	.20	2.60			.10								.02	.95					.74	.03												4.50	
Temperance	.03	2.13			.30	T.							1.55						.50	.20		.07										4.78	
Trenton	.29	.04			.08								.88	.04					2.45	.17		.14										6.73	
Trial	.14				.08								.48						1.03	.07		T.	T.									3.07	
Walhalla	*	2.75			.16								*	2.14					*	2.50		T.	T.	T.								7.55	
Wilmington, N. C.	.04	T.	.86			.18							.27	.58					.07	T.	T.	T.										2.00	
Winnsboro	.30												1.30	.09					.80	.40	.70	.30										6.59	
Winthrop College	.11	2.76			T.								1.24						1.95	.65	.18		.30									7.19	
Yemassee		1.09			.02								.37	.55					1.17	.25												3.45	
Yorkville	.20	4.00			.06								1.00	.26					4.34	.27	.15	T.	.30									10.58	

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



607.06  
UNSO

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR MAY, 1901.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

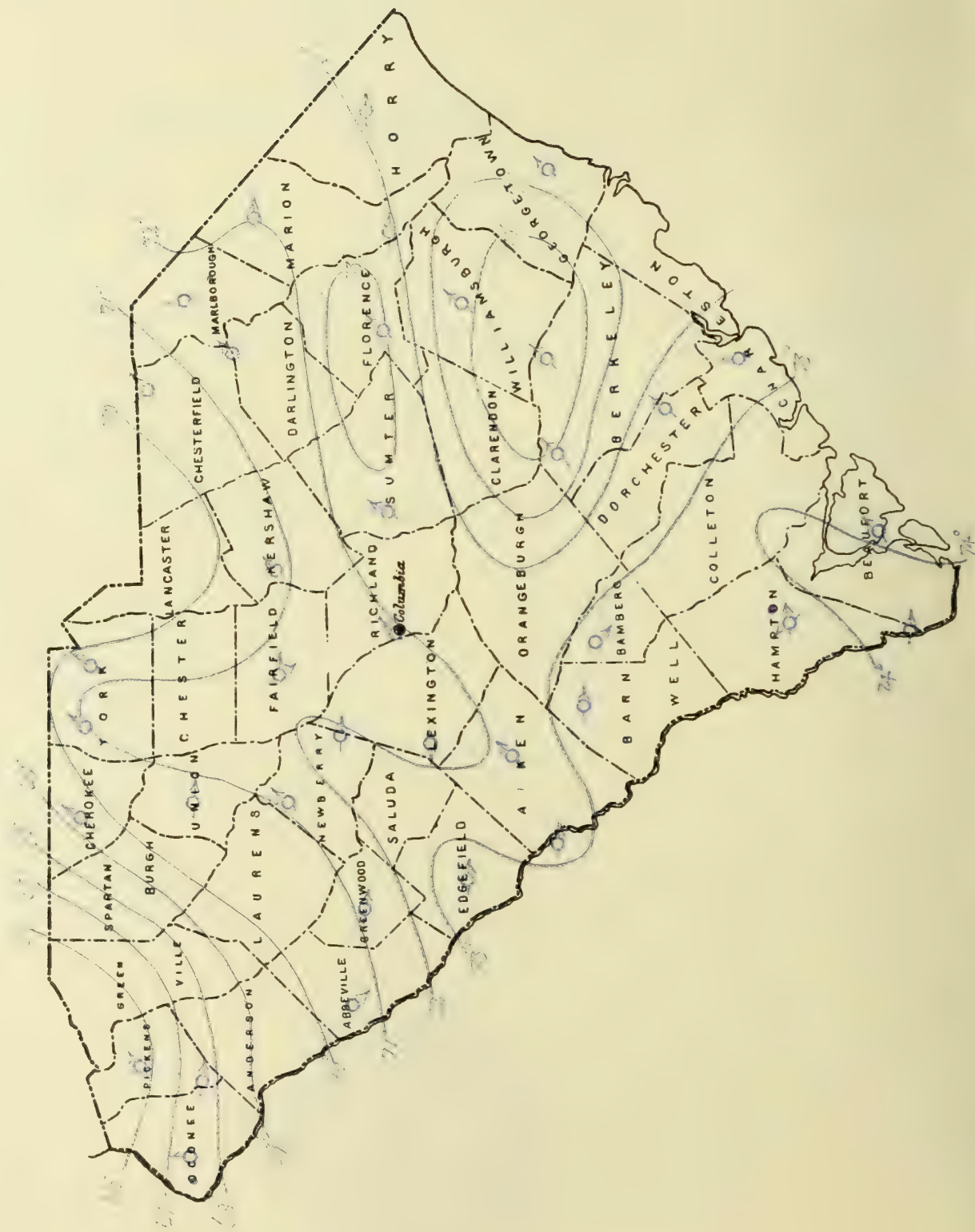


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MAY, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV.

COLUMBIA, S. C., MAY, 1901.

No. 5.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for the month of May, 1901, was  $71.4^{\circ}$ , which is  $0.3^{\circ}$  below the normal. The highest local mean was  $73.8^{\circ}$  at Beaufort; the lowest  $65.9^{\circ}$  at Liberty. The highest temperature was  $99^{\circ}$  at Gillisonville and Temperance on the 3d; the lowest  $40^{\circ}$  at Greenwood on the 28th, making the State range  $59^{\circ}$ . The greatest local range was  $55^{\circ}$  at Greenwood; the least  $32^{\circ}$  at Trenton. The mean of the daily maximum temperatures was  $82.6^{\circ}$ ; of the daily minimum temperatures  $60.2^{\circ}$ .

## Precipitation, in Inches.

The average precipitation was 7.31 inches, which is 4.03 inches above the normal. The greatest local amount was 3.08 inches at Winthrop College; the least 2.17 at Beaufort. The greatest 24-hourly fall was 6.25 inches at Winnsboro on the 21st. The average number of days with rain was 11, ranging from 4 at Georgetown to 17 at Statesburg.

Excessive Precipitation.—Calhoun Falls, 20-21st, 5.41 in 20 hours; Cheraw (1), 22d, 3.92 in 24 hours; Cheraw (2), 21-22d, 3.95 in 24 hours; Columbia, 20-21st, 4.88 in 24 hours; Conway, 21-22d, 2.50 in 24 hours; Darlington, 21st, 4.20 in 24 hours; Edisto, 20-21st, 2.75 in 24 hours; Effingham, 21-22d, 3.10 in 24 hours; Florence, 21-22d, 3.50 in 24 hours; Georgetown, 19-20th, 3.90 in 24 hours; McColl, 21-22d, 2.85 in 24 hours; Shaws Fork, 19-20th, 3.02 in 24 hours; Smiths Mills, 21st, 4.60 in 12 hours; Society Hill, 21st, 3.95 in 24 hours; Spartanburg, 21-22d, 4.80 in 24 hours; Statesburg, 21-22d, 2.92 in 24 hours; Temperance, 20-21st, 5.20 in 24 hours; Winnsboro, 21st, 6.25 in 24 hours; Winthrop College, 21-22d, 3.84 in 24 hours; Yorkville, 20-21st, 3.71 in 24 hours.

Floods in Rivers.—Floods occurred in all the rivers and minor streams of the western half of the State on the 21-22-23-24th.

Hail.—Hail was observed and reported by climate and crop correspondents, from nearly every county, on the 19th to the 22d, very destructive in places over limited areas, and hail was noted by voluntary observers as follows: Beaufort, 19; Blackville, 8; Camden, 11, 13; Cheraw, 10, 12; Clemson

College, Kingstree, 5; Greenwood, 19; Society Hill, 6; Statesburg, 19, 20; Summerville, 15; Temperance, 10, 20; Trenton, 25.

Weather.—Average numbers of days clear 13, partly cloudy 10, cloudy 8.

Winds.—The prevailing direction of the wind was from the southwest at 21 stations, from the west at 13 stations, from the northwest and south at 3 stations each, from the east at 2 stations, and from the southeast at 1 station.

High Winds.—Beaufort, 28; Charleston, 21; Gillisonville, 2, 31; Liberty, 12, 13, 14; Santuc, 8; Trenton, 19; Walhalla, 6, 19, 28, 29; Winthrop College, 21.

## MISCELLANEOUS PHENOMENA (with dates).

Parhelion.—Trenton, 1.

Frost, Light.—Longshore, 28.

Solar Halos.—Charleston, 5, 9, 22, 26, 31; Gillisonville, 28; Santuc, 9; Statesburg, 5, 16.

Lunar Halos.—Charleston, 25, 26; Gillisonville, 26, 27; Santuc, Winthrop College, 31.

Fogs, Dense.—Beaufort, Camden, 15; Blackville, Cheraw, 23, Charleston, 23, 24; Clemson College, 21; Edisto, 31; Gillisonville, 5, 6, 15, 16, 23, 24, 25; Liberty, 18, 22; St. Stephens, Trial, 24; Society Hill, 14, 15, 23, 24; Statesburg, 15, 23.

Thunderstorms.—Beaufort, 6, 7, 8, 14, 17, 18, 19, 20, 21, 25, 26, 28, 30; Blackville, 7, 8, 17, 18, 19, 20, 21, 25, 26, 28, 31; Camden, 11, 13, 21, Charleston, 6, 10, 14, 18, 19, 21, 27, 28; Cheraw, 3, 6, 10, 12, 17, 19, 20, 25, 26; Columbia, 7, 8, 10, 12, 17, 19, 20, 21, 25, 26; Gillisonville, 5, 6, 7, 8, 13, 14, 17, 19, 20, 21, 23, 25, 26, 28, 30; Greenwood, 19, 20, 21; Liberty, 19, 20, 21, 25, 30; Little Mountain, 10, 12, 26, 30; Longshore, 5, 7, 17, 18, 19, 20, 21, 25; McColl, 17; Santuc, 5, 10, 12, 17, 19, 20, 28; Shaws Fork, 7, 8, 12, 18, 19, 20, 25, 28; Society Hill, 3, 6, 7, 10, 12, 16, 19; Statesburg, 6, 7, 10, 12, 17, 18, 19, 20, 26, 28; Summerville, 10, 18, 19; Trenton, 10, 12, 19, 20, 21, 22, 25; Trial, 7, 8, 9, 12, 13, 17, 18, 19, 20, 26; Walhalla, 5, 18, 19, 25; Winthrop College, 3, 8, 10, 19, 20, 21, 25, 26, 30; Yorkville, 8, 10, 19, 21, 25.

## CLIMATE AND CROPS.

The month of May, 1901, was noted chiefly for its excessive precipitation, and its inversion of temperature. The mean temperature averaged nearly normal, but the maximum occurred generally on the 3d of the month, while the minimum was generally noted on the 28th, and at places the latter was low enough to seriously check the growth of young cotton and other field crops that are susceptible to thermometric conditions.

There were light local rains during the first decade, and only scattered showers, heavy in a few places, up to near the close of the second, at which time the heaviest rains ever recorded in May set in, and, with exceptions on the 23d, 24th



and 28th, continued to the close of the month, generally delaying, and at many points absolutely preventing, cultivation and plowing. The precipitation was heaviest in York, Chester, Fairfield, Chesterfield, Marlboro and Marion counties, but was in excess of the normal over all save the extreme southeastern portion of the State where there was a slight deficiency.

Tornadic conditions prevailed on the 21st, over the central and north-central counties, with several well-defined tornadoes that did considerable damage over limited areas in Clarendon, Sumter, Darlington and York counties. During the period of heavy rains from the 19th to the 22d, destructive hail storms occurred at a number of widely separated localities. There were floods in all the up-country streams, and the Broad, Tygar and Great Pee Dee rivers, in portions of their courses, rose above previously recorded high water stages. Crops on bottom lands subject to overflows were largely destroyed, while hillsides and terraced lands were extensively washed and damaged.

The meteorological conditions throughout the month were unfavorable to field crops, except to fall sown grain. Early in the month the ground was too dry to germinate seeds, and poor stands of corn, cotton, cane, melons, rice and transplanted tobacco were the prevailing conditions. The latter portion of the month was over-abundantly supplied with moisture to the physical injury of lands and to some crops, but seeds that had lain dormant now sprouted rapidly and all field crops attained perfect stands. However, the low temperature during the last decade adversely affected the growth of cotton, corn, tobacco and melons. This in connection with an already backward season, due to the abnormally cool April, made the condition of all field crops very late and poor by the close of the month.

Oats improved, partially ripened and some were harvested; wheat maintained its excellent condition; truck and gardens were helped by the rains, so that while spring-planted field crops made poor progress, the condition of minor crops, and fall-sown ones, and pastures were better.

**ERRATUM.**—Monthly report for April, 1901, on page 5, the monthly mean temperature at Greenwood, 53.5°, should be 53.8°.

#### REMARKS BY OBSERVERS.

Longshore.—The latter portion of the month was unfavorable to farmers —W. G. Peterson.

Summerville.—May, usually a dry month at this point, has been this year a most acceptably showery one.—Prof. Jno. Gadsden.

Batesburg.—The first part of the month was very fine for farmwork, but the month ended with excessive rains and cool weather.—E. J. Hite.

Greenwood.—The cool nights during the latter portion of the month killed some cotton planted on sandy lands. Fields are very grassy.—M. M. Calhoun.

Little Mountain.—At the end of the month many fields are grassy. Much cotton has not been thinned to stands. Wheat and oats are ready to harvest.—John M. Sease, M. D.

Society Hill.—Fog occurred on four days. Precipitation was unusually heavy, and was disastrous to corn and cotton, but tobacco was apparently uninjured.—J. J. Lucas.

Gillisonville.—The latter portion of the month was cool and very wet, conditions not favorable for working cotton and corn, and fields are grassy. All crops are small for the season, although healthy and making some growth. Oats are yielding fairly well.—Sam P. Saltus.

Winthrop College.—On the 21st, winds destroyed several houses and sheds at New Harmony; some houses in Rock Hill report windows blown out. Between the College and the farm, one mile to the north, fences were blown down and trees were torn up by the roots.—Dr. Cleveland Abbe, Jr.

Liberty.—Crops are very irregular and uneven. Early corn came up badly owing to cold weather and beating rains; later plantings came up badly owing to dry weather. Fruit is dropping badly, peaches especially so. Truck patches look well. Small grain is doing nicely.—John T. Boggs.

Trenton.—Saturday night, May 25th, hail and a cloudburst, two miles north of this place, did great damage to all crops, and to lands. The precipitation was 3.07 inches more than the 9-year average for May, and is 2.74 inches more than the 8-year average for the first 5 month of the year.—C. A. Long.

Santuc.—The month was noted for its low morning temperatures—much too low for the growth of cotton. The month was also too wet, causing bottom lands to be too wet to plow or plant, and floods occurred in water courses. Insects were numerous, especially worms, that ruined much late-planted corn.—E. W. Jeter.

#### EDITORIAL NOTE.

Dr. Cleveland Abbe, Jr., for the past two years voluntary observer at Winthrop College, has severed his connection with that institution for the purpose of going abroad. While in Europe he intends to take a post-graduate course at some University. His place as voluntary observer will be taken by Prof. J. W. Thomson, professor of Pedagogics at Winthrop College.

The voluntary observing station that for so many years was located at Holland, Anderson county, has recently been removed to the city of Anderson, with Mr. R. B. Dean as observer. No report from that point is available for this month, but beginning with some time in June regular reports will be received. The service maintained a rainfall station at Anderson for a number of years, and that record will be used to compute the normal rainfall for the new station, while the normal temperature for Holland can be used without material error.



CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record— years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall. (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.
Allendale	Barnwell	186	13	73.4	+0.6	94	3	52	6	33	9.05	+5.43	1.85	.....	12	14	7	10	.....	Weather Bureau.
Augusta, Ga.	Richmond	134	30	72.5	0	91	2	51	28	36	5.29	+2.02	1.94	.....	12	10	15	6	W.	E. J. Hite.
Batesburg	Lexington	656	13	71.6	-0.2	96	24	48	28	35	5.94	+2.04	2.10	.....	10	20	4	7	e.	S. M. Benton.
Beaufort	Beaufort	28	15	73.8	-0.6	94	3	57	1	27	2.17	-0.26	0.71	.....	9	17	12	2	SW.	G. D. C. Lange.
Blackville	Barnwell	293	13	73.3	-0.1	96	3	51	*28	41	7.42	+3.69	2.31	.....	15	10	19	2	W.	P. J. Pfeiffer.
Cadham Falls	Abbeville	354	8	.....	.....	.....	.....	.....	.....	.....	9.17	+6.91	5.41	.....	8	25	0	6	NW.	B. Ammons.
Camden	Kershaw	222	35	.....	.....	.....	.....	.....	.....	.....	6.28	+3.16	1.47	.....	14	15	7	9	SW.	Weather Bureau.
Charleston	Charleston	48	32	72.9	-0.1	94	3	57	1	27	4.30	-0.69	1.92	.....	11	9	19	3	S.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	23	68.8	0	91	3	49	29	30	8.00	+3.93	2.39	.....	13	7	13	11	e.	Weather Bureau.
Cheraw (1)	Chesterfield	114	13	70.6	-0.6	93	3	51	1	37	10.19	+6.51	3.92	.....	13	10	6	15	SW.	W. R. Godfrey.
Cheraw (2)	.....	108	8	.....	.....	.....	.....	.....	.....	.....	10.19	+6.36	3.95	.....	13	14	7	12	SW.	Jno. H. Powe.
Clemson College (a)	Oconee	850	10	68.8	.....	93	*2	44	27	39	7.16	+4.10	1.69	.....	8	15	7	8	W.	Prof. C. C. Newman.
Columbia	Richland	351	14	72.0	-0.4	92	3	50	28	40	8.52	+4.66	4.88	.....	12	6	19	6	SW.	Central Office.
Conway	Horry	49	10	.....	.....	.....	.....	.....	.....	.....	8.02	+4.80	2.50	.....	12	12	3	15	W.	P. Quattlebaum.
Darlington	Darlington	175	6	.....	.....	.....	.....	.....	.....	.....	9.02	.....	4.20	.....	15	10	16	5	.....	E. R. McIver.
Edisto	Bamberg	143	8	.....	.....	.....	.....	.....	.....	.....	8.15	+5.77	4.75	.....	10	12	7	12	NW.	Miss Jerry Carter.
Ellingham	Florence	106	9	.....	.....	.....	.....	.....	.....	.....	7.08	+3.62	3.10	.....	9	13	7	11	SW.	A. J. Howard.
Florence	Florence	156	13	73.4	+0.6	93	3	52	1	34	8.35	+4.57	3.50	.....	12	13	1	17	.....	H. K. Gilbert.
Gaffney	Cherokee	.....	5	.....	.....	.....	.....	.....	.....	.....	5.14	.....	1.40	.....	9	11	5	15	SW.	B. F. Camp.
Georgetown	Georgetown	12	8	71.6	-1.0	94	3	55	1	36	7.50	+4.86	3.90	.....	4	28	1	2	SW.	W. T. Turbeville.
Gillisonville	Hampton	6	6	73.4	-1.2	99	3	48	1	43	5.40	.....	1.36	.....	10	12	14	5	W.	Sam P. Salsar.
Greenville	Greenville	1,000	9	66.9	-1.3	90	*3	44	29	38	7.48	+3.94	1.99	.....	12	20	4	7	.....	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	13	70.8	-0.8	95	25	40	28	31	8.31	-4.53	2.00	.....	11	23	0	8	W.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	9	62.7	0	82	3	39	28	27	9.74	+4.89	4.95	.....	9	16	8	7	e.	B. C. Hawkins.
Kingstree (1)	Williamsburg	77	13	70.9	-1.6	91	3	47	1	32	5.26	+1.75	1.22	.....	10	13	7	11	.....	C. J. Lesesne.
Kingstree (2)	.....	77	7	.....	.....	.....	.....	.....	.....	.....	5.41	.....	1.18	.....	10	14	6	11	SW.	W. H. Matthews.
Liberty	Pickens	.....	7	65.9	-2.7	94	2	44	28	42	5.46	.....	1.91	.....	5	12	12	7	SW.	Jno. T. Boggs.
Little Mountain	Newberry	711	8	71.9	-0.8	95	3	48	*28	36	6.31	+3.42	2.00	.....	10	10	15	6	W.	John M. Sease, M. D.
Longshore	Newberry	530	8	71.0	-0.2	95	3	46	28	37	4.08	+1.61	1.06	.....	11	9	10	12	SW.	W. G. Peterson.
McCull	Marlboro	.....	1	72.0	.....	98	3	52	*1	42	9.28	.....	2.85	.....	13	18	7	6	S.	N. L. Thayer.
Pinopolis	Berkeley	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. P. Ravenel.
Raleigh, N. C.	Wake	376	15	68.2	0	90	3	53	10	36	9.90	+4.38	2.95	.....	17	11	6	14	SW.	Weather Bureau.
St. Georges	Dorchester	109	13	72.8	+0.3	94	3	51	2	36	5.55	+2.40	2.13	.....	9	12	6	13	.....	W. B. Rayson.
St. Matthews	Orangeburg	254	13	72.8	-0.2	92	3	52	2	36	5.77	+2.48	2.10	.....	11	14	7	10	.....	J. S. Wannamaker.
St. Stephens	Berkeley	73	9	.....	.....	.....	.....	.....	.....	.....	6.69	+2.21	1.98	.....	11	15	6	10	SW.	C. T. Shuler.
Santuc	Union	512	8	70.4	+0.3	97	7	48	30	42	5.46	+2.84	1.50	.....	10	9	15	7	W.	E. W. Jeter.
Savannah, Ga.	Chatham	71	32	74.0	0	94	3	55	28	30	2.71	-0.06	1.45	.....	12	13	15	3	W.	Weather Bureau.
Shaws Fork	Aiken	500	8	.....	.....	96	6	.....	.....	.....	8.63	.....	3.02	.....	11	13	17	1	SW.	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	6	.....	.....	.....	.....	.....	.....	.....	9.97	.....	5.00	.....	13	14	6	11	W.	H. van Keuren.
Society Hill	Darlington	192	10	71.6	+0.7	93	3	54	27	35	10.50	+7.46	3.95	.....	15	12	9	10	SW.	F. J. Lucas.
Spartanburg	Spartanburg	875	10	70.0	-0.8	94	3	46	29	37	9.47	+6.43	4.80	.....	9	16	9	6	.....	F. P. Robinson.
Statesburg	Sumter	500	21	72.9	+1.9	93	3	50	28	33	9.42	+5.96	2.92	.....	17	9	11	11	SW.	W. W. Anderson, M. D.
Summerville	Dorchester	.....	4	72.2	.....	92	3	51	27	32	4.93	.....	1.72	.....	12	17	11	3	SW.	Prof. Jno. Gadsden.
Temperance	Marion	100	3	72.0	.....	90	3	52	1	45	11.69	.....	5.20	.....	13	12	15	4	W.	J. R. Reaves.
Trenton	Edgefield	620	8	73.4	-0.2	90	3	58	*27	27	5.88	+3.14	1.65	.....	10	14	14	2	W.	C. A. Long.
Trial	Berkeley	.....	15	69.6	-1.1	91	3	46	1	40	6.70	+1.64	2.05	.....	16	6	17	8	SW.	Etsell Gaillard.
Walhalla	Oconee	1,061	11	67.2	-0.4	93	2	43	28	38	5.26	.....	2.00	.....	8	13	13	5	S.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	32	70.4	0	94	3	52	1	31	6.18	+1.87	1.31	.....	15	7	18	6	SW.	Weather Bureau.
Winnsboro	Fairfield	545	12	71.0	-0.8	91	*25	48	28	30	12.09	+9.66	6.25	.....	10	17	10	4	W.	John W. Seigler.
Winthrop College	York	690	2	69.7	.....	93	3	49	29	33	13.08	.....	4.84	.....	15	8	8	15	SW.	Prof. Cleve and Abbe, jr.
Yemassee	Beaufort	23	6	74.4	.....	94	12	50	1	34	3.56	.....	0.85	.....	9	11	6	14	.....	R. G. Smith.
Yorkville	York	680	13	71.7	+1.3	96	3	49	29	34	8.03	+4.88	3.71	.....	12	9	13	9	SW.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				71.4	-0.3	99	3	40	28	45	7.31	+4.03	6.25	.....	11	13	10	8	SW.	.....

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

† Mean from 7 a. m., and 9 and 2 p. m. observations.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MAY, 1901.

[illegible]



TOTAL PRECIPITATION FOR MAY, 1901.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1901.

STATIONS.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Allendale					T.	.01	.50		.15	.30		T.		T.				.85	.15	.80	1.50	1.60			T.	*	1.85	.40	.15	*	.80	9.0		
Augusta, Ga.					T.				.02	.13		T.		T.				.02	1.15	.94	.73	1.21				.01	.23	.25		T.	.59	5.0		
Batesburg						.02	.02			.20				T.				.15	.45	.90	.90	2.10					.20	.35	.05		.63	2.0		
Beaufort														T.				.71	.02	.45		.30					.15	.21			.29	2.0		
Blackville							.45	.12				.01	.08					.55	.81	.85	.95	2.31					.02	.68	.22	.14		.23	7.4	
Calhoun Falls					.15							.52						.92	.57	.69	5.41						.26				.65	9.0		
Camden						.15			T.	.24		.18			.01	T.	.02	.04	.84	1.15	1.45	.02			.01	1.45	.52	.20			T.	6.0		
Charleston						T.	.01		.01				.01	.14			T.	T.	.41	.48	.83	1.09					.32		.73		.27	4.0		
Charlotte, N. C.					.31	T.	.87	.02		.25				T.			.01	T.	.89	.32	2.39	.36			.42	.99	.99	.35			.08	8.0		
Cheraw(1)							.07			.13		.12				.52	T.	.86	1.45	.05	3.92	.15			.53	1.24	.94	.21		T.		10.0		
Cheraw(2)						T.	.06	T.	T.	.12		.22	T.			.61		.91	1.72	.03	3.95	.08			.14	1.25	.97	.13				10.0		
Clemson College					.52							T.					T.	.76	1.69	1.36	1.66					.12			.47	.58	7.0			
Columbia											.05	.04				.80		.07	1.22	1.81	3.58	.23		T.	.50	.56	.08	.01		.37	8.0			
Conway						.70	.30	.40		.25								.10	.15	1.10		2.50	T.				.12	.95	.65			.80	8.0	
Darlington, near						.25	T.		.06		.18	.01				.10	.04	.01	1.37	.05	4.20	.41				1.30	.83	.08			.13	9.0		
Edisto						.25	.25	.93										T.	.32		.72	2.75	1.69					.83		.14	.27	8.0		
Efingham						.17		.30				T.						T.	.30	1.30	.50	3.10	.05				.54	.87	.15			.70	7.0	
Florence						T.	.35	.14		.03		.02				.40	.02		1.88	.11	3.50	T.					.88	.85	.17			T.	8.0	
Gaffney											.05		T.						.30	1.27	1.10	1.40				.30	.26	.22			.24	5.0		
Georgetown																			2.40	3.90							.50	.70				.70	7.0	
Gillisonville						T.	.70						.12	T.			.57		.53	.10	1.32					.04	1.32	.14	T.	T.	.56	5.0		
Greenville					.14					.14			T.	.15				T.	.52	1.20	1.99	1.88				.42	.52	.02	.07		.43	7.0		
Greenwood						T.				.05	T.		.54		.21			T.	.96	1.82	2.00	1.10				1.08	.22		.13		*	.20	8.0	
Horse Cove, N. C.																			.80	.64	.30	1.22						.59	.70		.29	5.0		
Kingstree(1)						T.	.25	.37	.10				T.																					
Kingstree(2)						T.	.30	.35	.12				T.																					
Liberty						T.					T.							T.	.19	1.91	1.41						.10	T.			T.	.85	5.0	
Little Mountain										.01	.25							T.	.55	.71	2.00	.17					.30	.60	.16		T.	.56	6.0	
Longshore												.29						T.	.48	1.06	.20	1.04					.05	.22	.14	.14		.06	.40	4.0
McColl						T.						.04	T.					.41	.05	1.68	.41	.78	2.85		.07		1.75	.78	.04	.13		.29	7.0	
Pinopolis																				.84	.62	.42	1.18											
Raleigh, N. C.						.01	.18	.56	.18	1.26				T.	.71			.76	.20	.69	.13	2.95	.18	.01	T.	1.63	.26	.13	.06		T.	.90	9.0	
St. Georges							.10	.15	.20										1.98	.15	.90	.10				1.87						.10	5.0	
St. Matthews							.23	.13				.15							.85	1.20	.13	2.10						.35	.10	.43	.10		.10	5.0
St. Stephens							.20	.76	.17									.15	.30	1.18	1.98							.15	1.06	.52		.22	6.0	
Santuc						T.			T.	T.	.09	.23						T.	T.	1.01	.18	1.50	.09				.53	.54	.33		T.	.96	5.0	
Savannah, Ga.							.01						T.	.01	.06			.32	.09	T.	.02	1.45	.03					.21	.04	.13		.34	2.0	
Shaws Fork							.35	.08				T.						T.	.45	1.45	3.02	2.20					.06	.37	.24	T.	.09	.32	9.0	
Smiths Mills							T.	.40	.50						.20			.10	.12	1.10	1.65	4.60	.40	.10	.10			.30	.55	.85			.90	9.0
Society Hill					.01		.10	.14			.04	.47					.77		.30	1.40		3.95	.08			.03	2.58	.37	.10			.16	10.0	
Spartanburg										*	.17							T.	.44	1.64	1.55	4.80					.25	.26	.11	T.		.25	9.0	
Statesburg						.05		.15		.12		.04	.04				.09	.09	1.93	.07	2.70	.22					1.68	1.62	.14		.10	.27	9.0	
Summerville							.03	.81				.03					.07	.23	.76	T.	1.72						.02	.28	.40		.38	.20	4.0	
Temperance						T.	T.	.32		.09		.05					.17	.04	1.15	1.75	5.20					.52	.96	1.12	.21			.11	11.0	
Trenton						.12					T.		T.					.20	1.65	.57	1.51	.34					.05	.62	.12			.70	5.0	
Trial							T.	.29	.04			.05		.04				.14	.35	1.37	.10	2.05	.03				1.04	.70	.05		.26	.19	6.0	
Walhalla						.15							T.					T.	*	1.25	*	3.20				.16	T.	T.		*	.50	.50	5.0	
Wilmington, N. C.							.20	.56	.02	.59			T.	.06	.05			.04		.08	1.31	.67	.38	.14			1.21	.76		.11		T.	12.0	
Winnboro							.10	.23										.08	.75	1.50	6.25						1.92	.48	.50	T.	.06	.45	12.0	
Winthrop College					.18			.03	.83		.67	T.	.10					T.	.42	.34	3.86	.98				.20	1.77	1.93	.09			.68	13.0	
Yemassee							.06	.30					.04					.31		.85		.69						.82	.11	T.		.38	3.0	
Yorkville					.07			.43		.26		T.						T.	1.38	.12	3.71	.25				.11	.75	.54	.12			.29	8.0	

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



95  
189  
U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR JUNE, 1901.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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CHIEF OF WEATHER BUREAU.

BY

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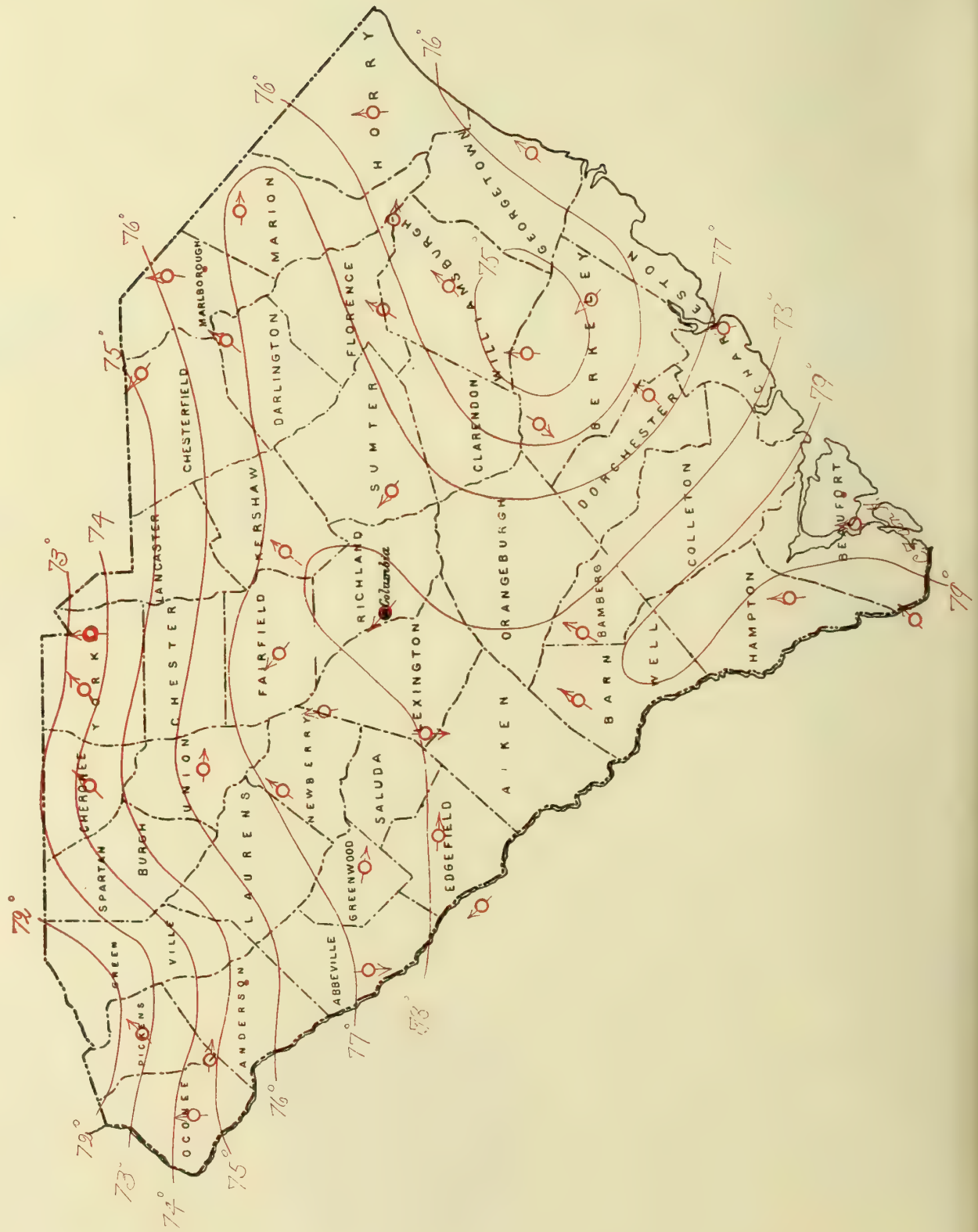


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JUNE, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV.

COLUMBIA, S. C., JUNE, 1901.

No. 6.

## CLIMATE AND CROPS.

While June, 1901, averaged slightly cooler than usual, the month was free from rapid or violent temperature fluctuations, and this equableness was favorable to the growth of vegetation, but, as in May, there was an excess in precipitation that was harmful, not only in largely preventing proper cultivation of field crops, thereby permitting them to become foul with grass and weeds, but the soil also became too wet for the normal development of the staple crops. A large and general deficiency in sunshine also contributed to their deterioration.

Floods occurred in nearly all the rivers and smaller streams, and, to a large extent, such crops as were replanted after the floods of May were destroyed, while bottom lands were in many places too wet to replant, thus throwing out of production some of the richest corn lands in the State.

As a result of these adverse meteorological conditions, cotton failed to make its usual June progress and rapid growth, and by the close of the month its condition was extremely poor, being small, late, grassy, and generally having an unhealthy color. Corn and tobacco were also in bad condition, and generally unpromising. The former was in many sections practically a failure, and generally tasseled low, had tender stalks, and was of yellow color. There were, of course, exceptions where the crop had timely and proper cultivation. The minor crops, especially such as do not depend on cultivation for their development, did very well, although the area planted to June rice was smaller than usual on account of freshets. Peaches ripened, but there was much rotting. Apples dropped to a large extent. Wheat and oats were harvested under adverse conditions due to frequent rains, and much of the grain was damaged in the shock by sprouting. Much bottom-land oats was destroyed by floods, when ripe and ready to be harvested. The scarcity of farm laborers is a serious factor in farm economics during this month.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for June, 1901, was 76.7°, which is 1.4° below the normal. The highest local mean was 79.2° at Yemassee, the lowest 72.0° at Greenville. The highest maximum temperature was 102° at Batesburg on the 24th, the lowest minimum was 48° at Walhalla on the 1st, making the State range 54°. The greatest local range was 47° at Clemson College, the least 32° at Trenton. The mean of the daily maximum temperatures was 86.0°, of the daily minimum temperatures was 67.4°.

## Precipitation, in Inches.

The average precipitation was 6.55 inches, which is 2.02 inches above the normal. The greatest local amount was 11.92 inches at Pinopolis, the least was 3.60 at Walhalla. The greatest 24-hourly fall was 4.05 inches at Anderson on the 13th. The average number of days with rain was 12, ranging from 7 at Allendale, Anderson, and Walhalla to 17 at Greenville.

Excessive Precipitation.—Anderson, 13th, 4.05 in 24 hours; Beaufort, 15th, 2.65 in 12 hours; Calhoun Falls, 14th, 2.70 in 24 hours; Cheraw (2), 16-17th, 2.67 in 24 hours; Clemson College, 13th, 2.60 in 24 hours; Darlington, 13th, 2.75 in 24 hours; Effingham, 14th, 2.60 in 24 hours; Florence, 13-14th, 3.50 in 18 hours; Georgetown, 12th, 3.50 in 24 hours; Greenville, 13-14th, 3.13 in 23 hours; Little Mountain, 16th, 2.69 in 16 hours; Pinopolis, 13th, 3.05 in 24 hours, and on 30th, 2.50 in 24 hours; St. Matthews, 13-14th, 2.50 in 24 hours; Smiths Mills, 13-14th, 2.50 in 24 hours; Spartanburg, 13 to 15th, 5.47 in 51 hours; Trial, 12-13th, 2.89 in 12 hours, and on 15th 2.55 in 12 hours.

Hail.—Damaging hail occurred in Abbeville, Bamberg, Barnwell, Aiken, Lexington, Newberry, and Saluda counties. Specific dates on which hail fell were reported by voluntary observers as follows: Blackville, Cheraw, Longshore, Winthrop College 24th; Clemson College 17th; Florence, Temperance 30th; Gillisonville 3-30th; Walhalla 23rd.

Weather.—The average number of days clear was 9, partly cloudy 12, cloudy 9.

Winds.—The prevailing direction of the wind was from the southwest at 15 stations, from the south at 10, from the southeast at 6, from the west at 5, and from the north, northeast and northwest at 1 station each.

High Winds.—Anderson 29th; Charleston, Longshore, Statesburg, Trial 25th; Cheraw (1) 24th; Columbia 11-22-25th; Florence 30th; Gillisonville 3-13-30th; Liberty 1-7-14-22-25-26th; Walhalla 7th.

## MISCELLANEOUS PHENOMENA (with dates).

Lunar Halos.—Charleston, 28; Gillisonville, 2.

Solar Halos.—Charleston, 11, 28, 30; Gillisonville, 12, 16, 17; Santuc, 12; Statesburg, 11, 20; Walhalla, 5.



Fogs, Dense.—Anderson, Statesburg, Trial, 21; Edisto, 17, 21; Liberty, 15, 16, 23, 29, 30; Longshore, 2, 4; St. Stephens, 2, 21; Society Hill, 20.

Thunderstorms.—Anderson, 29; Beaufort, 3, 6, 14, 15, 16, 21, 22, 23, 24, 25, 26, 30; Blackville, 3, 6, 14, 16, 25, 26, 30; Camden, 15; Charleston, 3, 6, 16, 17, 22, 24, 25, 26, 30; Cheraw, 3, 10, 15, 16, 17, 21, 22, 24, 25, 26, 30; Clemson College, 14; Columbia, 9, 11, 16, 21, 22, 24, 25, 26, 29; Florence, McColl, 30; Gillisonville, 3, 6, 14, 15, 16, 21, 22, 24, 25, 26, 30; Liberty, 6, 11, 14, 15, 16, 17, 19, 20, 22, 30; Longshore, 6, 14, 15, 16, 24, 30; Pinopolis, 22, 30; Santuc, 6, 14, 15, 16, 18, 20, 24, 25, 28, 29, 30; Society Hill, 3, 13, 16, 30; Statesburg, 3, 6, 9, 14, 15, 16, 21, 22, 24, 25, 26, 29, 30; Summerville, 21, 24, 25, 30; Trenton, 3, 14, 15, 16, 20, 24, 25, 27, 30; Trial, 3, 6, 16, 21, 22, 24, 25, 30; Walhalla, 6, 10, 11, 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 28, 29; Winthrop College, 15, 16, 22, 24, 25, 26, 29, 30; Yorkville, 18, 20, 22, 25, 30.

LATE MAY REPORT.—Pinopolis, mean temperature 71.3°, total precipitation 5.69 inches, number of days with rain 11, number of days clear 15, cloudy 16, prevailing direction of the wind northwest.

#### ERRATA.

May report, on page 5, Beaufort, minimum temperature 57° on the 1st and 2d should be 56° on the 5th; page 5, Trenton, monthly mean temperature 73.4° should be 73.6°.

#### A RAIN OF FISHES.

Mr. J. W. Gardner of Kershaw county reports an unusual phenomenon that occurred near Tillers Ferry during a heavy rain near the close of June. He states that hundreds of little fishes were found swimming between the rows of a cotton field, and that among them were cat fish, perch, and a few that looked like trout. There is no creek or pond near the field from whence they might have come, and he asks the difficult question, where did they come from?

#### REMARKS BY OBSERVERS.

Cheraw (1).—There was a heavy wind storm on the 25th, and a heavy thunderstorm on the 30th.—W. R. Godfrey.

Pinopolis.—On the 22d there occurred the severest storm of many years; nine or ten trees were struck by lightning in this immediate vicinity.—E. P. Ravenel.

Summerville.—The moisture of the atmosphere was excessive from the 12th to the 18th, and the average relative humidity for the month was 80 per cent.—Prof. John Gadsden.

Society Hill.—Oats and wheat were harvested, with good yields. Continued rains have been hurtful to cotton, corn

and tobacco, with the outlook very discouraging for the final results.—Maj. J. J. Lucas.

Longshore.—On the 24th lightning struck a dwelling at Newberry, and a stable at Silver Street killing a horse. The rainfall has been excessive in portions of the county, and lands are badly washed.—W. G. Peterson.

Beaufort.—Mean temperature averaged 1.6° below normal. Precipitation is 4.18 inches above normal. Cotton is mostly small and poor. Corn, except a few fields of early planted, is poor and spindling.—S. M. Benton.

Batesburg.—Very little farm work could be done during the first part of the month, on account of frequent, heavy rains, but the latter part was more favorable. All crops were looking well at the close of the month.—E. J. Hite.

Anderson.—Crops did not improve much during June, and the prospects are gloomy. Crops were grassy and laborers scarce. Heavy rains in portions of the county on nearly every day. Cotton shedded leaves, and looks yellow.—R. B. Dean.

Gillisonville.—A very unfavorable month. The first and last portions were cool and wet, and all field work was interrupted. Crops look sickly, are small, and of poor prospect. Corn laid by. Heavy rain and hail storm on the 30th.—Sam P. Saltus.

Florence.—On the 30th there were severe wind and hail, most damaging about two miles southeast of this point, where crops were injured and trees blown down. There was also a severe local storm west from here on the same date.—H. K. Gilbert.

Trenton.—The precipitation was 2.91 inches more than the 9-year average for June, and is 6.03 inches more than the 8-year average for the first 6 months of the year. Cotton and corn are very poor; they were drowned on lowlands, and are grassy.—C. A. Long.

Liberty.—Much rain and damp weather caused crops to become very foul. Small grain crops were damaged somewhat by wetness and high winds. The fruit crops, especially early peaches and grapes, are rotting badly. Wild plum and berry crops are unusually fine.—John T. Boggs.

Santuc.—The month was characterized by much cloudiness that prevented the ground that was saturated by the heavy rains in May, from drying, and all farming operations were hindered and delayed. There was much thunder, some of it very loud, during the month, and rains were usually accompanied by high winds.—E. W. Jeter.



## CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature in degrees Fahrenheit.							Precipitation—in inches.				Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Allendale	Barnwell	186	13	79.0	—0.6	99	25	60	*1	25	4.97	+0.56	1.55		7	9	11	10		R. B. Dean.
Anderson	Anderson	892	0								8.25	+4.44	4.05		7					Weather Bureau.
Augusta, Ga.	Richmond	134	30	78.5	—0.5	98	24	61	1	28	3.71	—0.89	1.59		11	9	14	7	se.	E. J. Hite.
Batesburg	Lexington	656	13	77.7	—1.3	102	24	59	1	30	4.68	—0.54	1.90		10	16	8	6	n.	S. M. Benton.
Beaufort	Beaufort	28	15	78.7	—1.8	98	25	64	1	23	8.62	+4.18	2.65		14	14	12	4	s.	G. D. C. Lange.
Blackville	Barnwell	293	13	78.7	—1.6	98	*24	57	8	33	6.34	+1.96	1.56		16	9	18	3	sw.	P. J. Pfeiffer.
Calhoun Falls	Abbeville	354	8								5.34	+3.05	2.70		8	21	1	8	nw.	B. Ammons.
Canden	Kershaw	222	35								6.34	+2.68	1.51		15	7	9	14	sw.	Weather Bureau.
Charleston	Charleston	48	32	77.3	—1.7	96	25	63	1	20	4.15	—1.42	1.86		13	5	19	6	s.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	23	75.6	—0.4	94	24	58	1	24	6.47	+1.50	2.59		14	3	17	10	s.	Weather Bureau.
Cheraw (1)	Chesterfield	114	13	75.2	—3.4	93	25	55	8	30	9.27	+5.01	2.44		12	6	7	17	se.	W. R. Godfrey.
Cheraw (2)		108	8								10.05	+4.53	2.67		12	6	12	12	sw.	Jno. H. Powe.
Clemson College	Oconee	850	10	75.8	—1.8	98	24	51	1	31	7.92	+3.36	2.60		13	2	25	3	w.	Prof. C. C. Newman.
Columbia	Richland	351	14	78.2	—0.8	96	25	58	1	24	4.94	—0.78	2.03		16	5	19	6	se.	Central Office.
Conway	Horry	49	10								5.79	+2.05	1.90		8	7	7	16	s.	P. Quattlebaum.
Darlington	Darlington	175	6								5.99		2.75		13	9	16	5		E. R. McIver.
Edisto	Bamberg	143	8								5.83	+0.73	1.72		9	10	8	12	sw.	Miss Jerry Carter.
Edlingham	Florence	106	9								6.26	+1.60	2.60		9	9	12	sw.	A. J. Howard.	
Florence	Florence	156	13	77.8	—1.3	97	26	60	*1	28	6.09	+0.65	3.50		13	15	0	15		H. K. Gilbert.
Gaffney	Cherokee		5								4.36		1.59		11	9	7	14	sw.	B. F. Camp.
Georgetown	Georgetown	12	8	76.3	—3.0	89	24	58	5	25	11.65	+6.51	3.50		11	17	5	8	sw.	W. T. Turbeville.
Gillisonville	Hampton		6	78.3	—2.1	101	*24	59	*1	34	7.93		2.06		14	12	11	7	s.	Sam P. Salts.
Greenville	Greenville	1,000	9	72.0	—2.4	90	*25	52	2	28	7.99	+3.23	3.13		17	15	5	10		Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	13	77.3	—1.5	98	25	57	2	29	5.09	+1.14	1.78		11	14	2	14	w.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	9																	B. C. Hawkins.
Kingstree (1)	Williamsburg	77	13	75.8	—3.1	92	*24	58	9	27	7.33	+2.73	1.65		14	8	10	12		C. J. Lesene.
Kingstree (2)		77	7								7.40	+3.19	1.67		13	9	9	12	sw.	W. H. Matthews.
Liberty	Pickens		7	72.6	—5.0	93	25	50	2	32	8.26		2.10		12	8	16	6	sw.	Jno. T. Boggs.
Little Mountain	Newberry	711	8	77.7	—1.4	99	24	57	1	28	7.45	+3.45	2.69		15	5	19	6	s.	John M. Sease, M. D.
Longshore	Newberry	530	8	77.4	—0.1	101	24	55	8	34	4.21	+0.45	1.49		11	1	19	10	sw.	W. G. Peterson.
McCull	Marlboro		1	76.4		96	24	55	8	35	4.04		1.20		8	20	5	5	s.	N. L. Thayer.
Pinopolis	Berkeley		8	75.4	—1.1	91	*24	62	9		11.92	+4.17	3.05		14	11	0	19	se.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	15	75.0	—1.0	95	24	56	9	30	6.04	+1.31	1.71		12	6	15	9	sw.	Weather Bureau.
St. Georges	Dorchester	109	13	77.1	—1.3	96	25	60	8	24	3.91	—1.62	1.91		11	11	8	11		W. B. Raysor.
St. Matthews	Orangeburg	254	13	77.0	—2.2	95	23	61	1	23	4.41	—0.64	2.50		8	8	9	13		J. S. Wannamaker.
St. Stephens	Berkeley	73	9								6.62	+0.42	1.75		13	11	7	12	s.	C. T. Shuler.
Santuc	Union	512	8	76.1	—0.7	99	24	56	*1	32	4.16	+0.40	1.00		10	4	18	8	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	32	78.6	—0.4	97	25	64	1	21	6.78	+0.55	2.49		10	8	18	4	sw.	Weather Bureau.
Shaws Fork	Aiken	500	8																	Geo. H. Atwood.
Smiths Mills	Williamsburg	62	6								6.80		2.50		10	9	9	12	w.	H. van Keuren.
Society Hill	Darlington	192	10	77.0	—0.2	93	25	59	7	24	6.11	+0.74	1.84		9	5	21	4	sw.	J. J. Lucas.
Spartanburg	Spartanburg	875	10	75.6	—2.9	97	24	54	2	28	6.56	+2.69	2.38		11	10	5	15		F. P. Robinson.
Statesburg	Sumter	500	21	77.6	+0.5	97	25	59	1	28	7.75	+4.86	2.18		14	3	17	10	se.	W. W. Anderson, M. D.
Summerville	Dorchester		4	75.8		92	24	61	*1	25	7.64		1.82		16	13	14	3	sw.	Prof. Jno. Gadsden.
Temperance (b)	Marion	100	3	77.4		99	*24	56	7	33	4.14		1.65		9	12	6	7	w.	J. R. Reaves.
Trenton (a)	Edgefield	620	8	78.3	—1.4	94	24	62	2	20	7.22	+3.43	2.61		12	5	20	4	w.	C. A. Long.
Trial	Berkeley		15	74.2	—2.8	93	25	57	8	28	9.78	+4.44	2.89		14	7	15	8	ne.	Etsell Gaillard.
Valhalla	Oconee	1,061	11	74.0	—2.2	93	*24	48	1	31	3.60		1.95		7	9	17	4	s.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	32	76.0	—1.0	93	24	61	9	27	7.27	+1.69	3.09		8	9	13	8	s.	Weather Bureau.
Winnsboro	Fairfield	545	12	77.2	+0.5	98	24	59	8	27	4.92	+0.55	1.69		12	8	19	3	se.	John W. Seigler.
Winthrop College	York	690	2	73.2		95	24	57	1	28	7.88		1.80		14	3	21	6	s.	Prof. Cleve'nd Abbe, jr.
Yemassee	Beaufort	23	6	79.2		100	24	60	1	29	9.34		2.23		10	11	6	13		R. G. Smith.
Yorkville	York	680	13	78.1	+0.4	98	*24	59	1	29	3.81	—1.32	1.10		12	3	15	12	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				76.7	—1.4	102	24	4	1	35	6.55	+2.02	4.05		12	9	12	9	sw.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

† Mean from 7 a. m., and 9 and 2 p. m. observations.

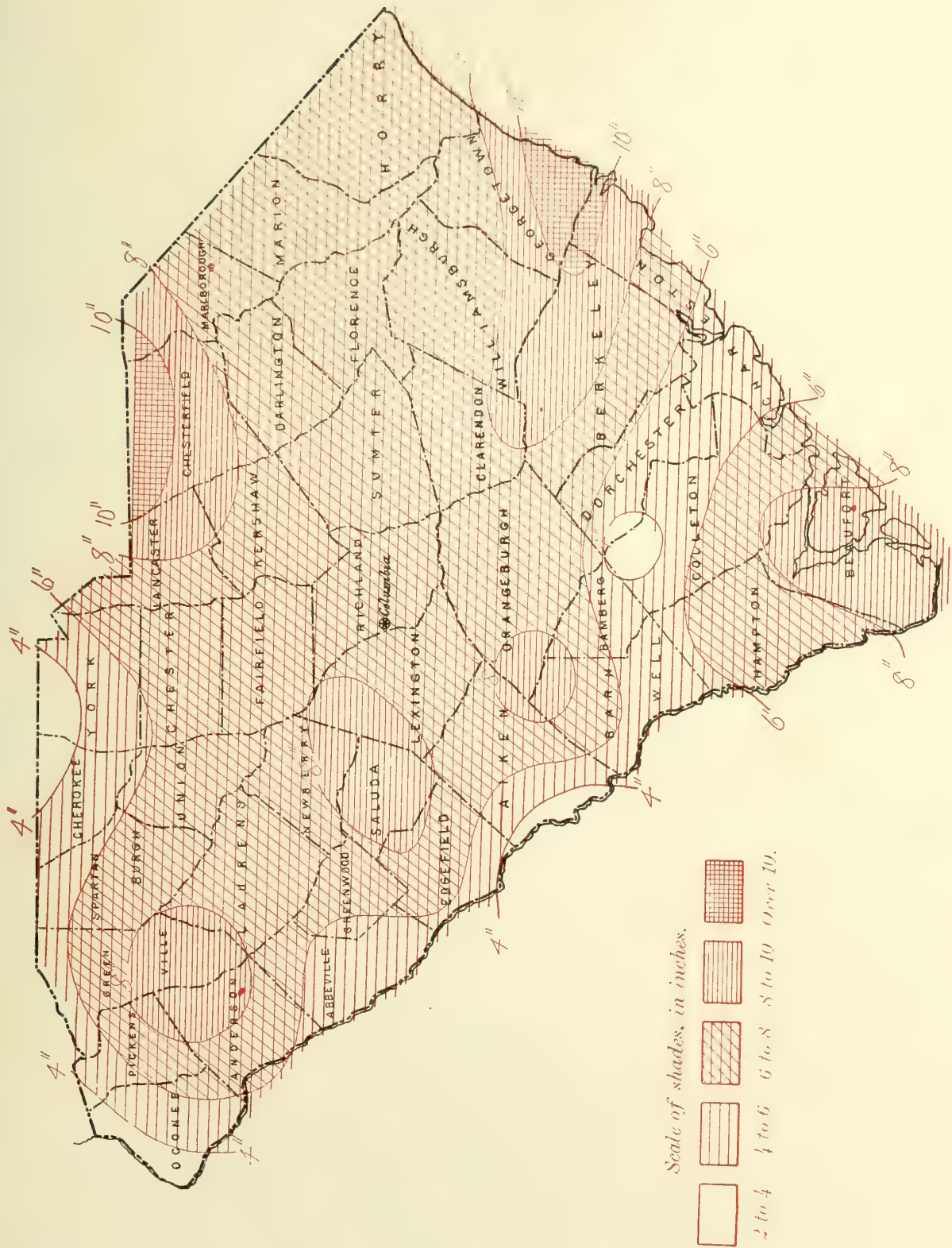


STATIONS.

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# TOTAL PRECIPITATION FOR JUNE, 1901.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JUNE, 1901.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Allendale	.40			.95			.82						.95	1.30	.25		.30															4.97	
Anderson													4.05	2.07	.02	.05					.04	.02		T.	T.					2.00		8.25	
Augusta, Ga.			.13		1.31	.12						.19	1.59	.13		.15	.03			T.		.03	T.	T.		.02		T.	.01	T.		3.71	
Batesburg	.45			.10		.15	.60						.23	1.90	.60		.05	T.							.10		.50					4.68	
Beaufort			.27			1.04	.01					1.27	2.12	.38	2.65	.28	.14			.02			.08			.04		.19			.13		8.62
Blackville	.37			.18		T.	.81					.05	.66	1.02	.13		1.56						.25		.91	.26	.14					6.34	
Calhoun Falls	.72					.27							.22	2.70	.32		.44					.70										5.84	
Camden	.24			.10		T.	.09			T.	.40	T.	.09	1.51	.35	T.	.65	.01				T.	.92	.04		.23	1.09	.44	T.		.18		6.34
Charleston	T.		.16	.06			.19					1.82	.55	.01	.04	.19	T.				.24	T.			.25	.01	T.			.05		4.15	
Charlotte, N. C.	.02					.10			T.	T.	T.		.27	2.59	.03	.37	.01	.02	T.	1.03	T.	.31				.34	.03		.05	.30		6.47	
Cheraw(1)	.24			T.			.12				.62		.01	2.25	1.04	T.	2.44					.28	.28	T.	1.00			.06		.93		9.27	
Cheraw(2)	.21			T.			.13			T.	1.21		.04	2.22	2.01	T.	2.67					.19	.13		.87	.19	.05				1.17		10.05
Clemson College					.15						1.50	.25	2.60	.46	.22	.05	.40				.17		.35	T.		.11	.58		1.08			7.92	
Columbia	T.		T.		.01	.01	.02		T.	.03	.79	.09	1.06	1.43	.04	.93	.06					.32		.01	.31	.51	T.			.22		4.94	
Conway	T.			.25								.79		.25	1.90	.45	1.65	.87	.27				.32	.15								5.79	
Darlington, near					.22	.05		.51				.01	2.75	.35		1.12	.01				.03	.09		.11	.47	.27						5.99	
Edisto			.92			.40							.60	1.72	.20	1.10	.14					.20				.55						5.83	
Effingham	.16				.42						T.		.05	2.60	.25	1.25	1.00	.18							.35							6.26	
Florence	.16		.02		.14	.05			T.			T.	3.50		.50	.20	.90	T.			.03	.35		.07	.09	.08						6.09	
Gaffney	.15					.10							.02	1.56	1.59	.15	.05	.35				.10				.10					.19		4.36
Georgetown	.50	1.25			.25							3.50	2.20	1.30		.40	.50	.60					T.	.50						.65		11.65	
Gillisonville	.03	.53			.79		T.					.04	2.06	1.06	.34	.01	.09					.06			.35		.04			1.63		7.93	
Greenville	.30	.13		T.	.36							.02	3.11	1.20	.35	.06	.13	.10	.02	.31		.14			.22	.23	.01	1.30				7.99	
Greenwood	.38		T.			.10	.72				.03		.15	1.78		.15		.08				.15					T.			.15	.40		5.09
Horse Cove, N. C.																																	
Kingstree(1)	.08		.08			.30	.11				.02		1.16	1.26	.11	.40	1.65	.22					1.47			.46	.01					7.33	
Kingstree(2)	.12		.13			.23	.14			T.			1.05	1.35	.12	.42	1.67	.15					1.45			.55	.02					7.40	
Liberty		T.			.61				T.		1.27		1.25	1.40	.60	.20	.03		.05	.15			T.		.10	T.	.12	1.78	T.			8.26	
Little Mountain		T.		.62	.45	.04			.03	.02	.03	.07	1.80	.99	.33	2.69	.08					.04		.04	.22							7.45	
Longshore		.11			.30						.08	1.41	.23	.03	.25	.05								1.49	.03			T.		.23		4.21	
McColl		.07			T.				T.	T.			T.	1.20	1.09	.48						.28		.36	.42	.14						4.04	
Pinopolis	.04	.75			.22	.06					.97	3.05	.15	2.47	.11	.10						.80		.50	.20					2.50		11.92	
Raleigh, N. C.					.34	.14					.18		.01	1.71	.01	.70	.24	T.			.98	.05	T.	1.03		T.				.65		6.04	
St. Georges	.15	.10		.30		.25	.25		.25				1.91			.10	.10					.20	.30									3.91	
St. Matthews						.15			.08				1.0	2.50	.80	.12	.14					.50										4.41	
St. Stephens	.13		.32			.14	.05						1.19	1.75	.08	.55	.65	.75					.55		.05	.41						6.62	
Santuc					.48							T.	.95	1.00	.96	T.	.12	.23		T.	.14		.18	.05			T.	T.	T.	.34		4.16	
Savannah, Ga.			T.		T.	.32	.95					.88	2.49	.16	.29	.05	1.59					T.	T.		.01		.04					6.78	
Shaws Fork													.20	2.50	.50	.30	2.10	.30															
Smiths Mills		T.		.15				.20					.20	2.50	.50	.30	2.10	.30					.40				.15					6.80	
Society Hill		.06											1.84	.62		1.67					.58	.63		.12	.50	.09				T.		6.11	
Spartanburg	.22		.03		T.	.11				T.			.04	2.37	2.38	.72	.33	.07	T.			.17				.12				T.		6.56	
Statesburg		T.			.32		T.		.45			.29	2.18	.05	.21	.50	.21					.10	.59		T.	1.00	1.53			.18	.14	7.75	
Summerville	.01	.50			.49	.28		.03				.98	1.82	.08	.10	.99	.07				.01	1.09		.31	.02	T.					.86	7.64	
Temperance					.24	T.		T.				T.	1.10	.15	.08	1.65	.07					.13	.14							.58		4.14	
Trenton					1.10	.13						.23	2.61	.94		.32				.43	.30				.23			.73	.08			7.22	
Trial	.02	.60			1.10	.12			.11			.60	2.89		2.55	.07	T.			.06	.27		.01	.32	T.					1.06		9.78	
Walhalla					.15				T.		.50				1.95	T.	.25					.20			.20	T.			T.	.35		3.68	
Wilmington, N. C.		.04			T.								T.	1.60	.03	T.	3.09	.06				.23		1.95		T.					.27	7.27	
Winnsboro		.57		.17		.03		.10		T.	T.	1.69	.08		1.10		T.		.23				.43	.24	.15	T.				.13		4.92	
Winthrop College	.02				.31	T.			.09				.95	.93	.28	1.59	.27		.35		.03		.77	1.80	.22	T.			T.	.27		7.88	
Yemassee	.27	.06				2.00							1.60	2.23	.03	1.11	.33								1.68	.03	T.					9.34	
Yorkville	.05					.20						T.	.54	1.10	.24	T.	.26	.53		.07	.04	.25			.30					.23		3.81	

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1901.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

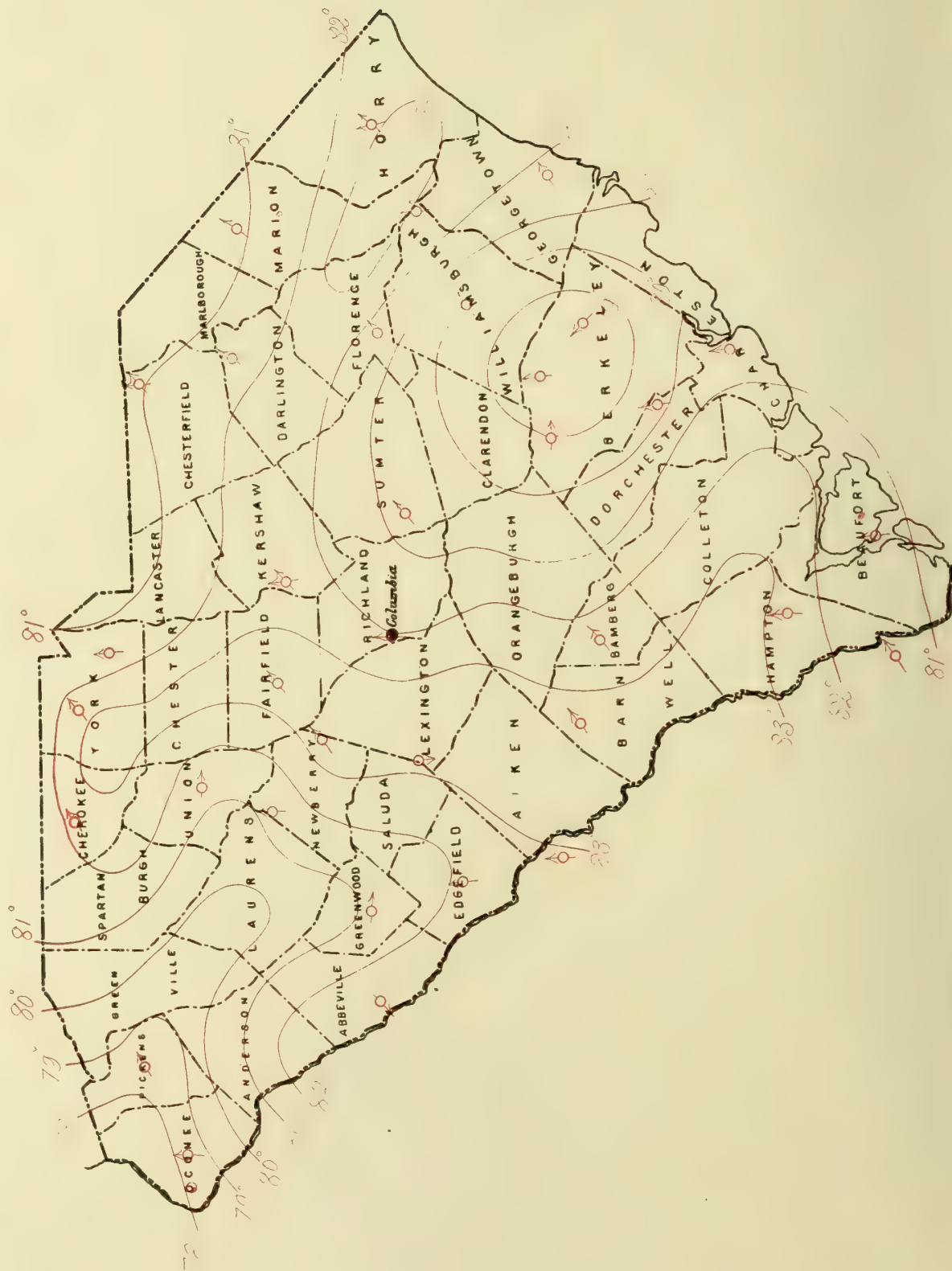


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JULY, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATE AND CROP SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.  
  
SOUTH CAROLINA SECTION.  
J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., JULY, 1901. No. 7.

CLIMATE AND CROPS.

On the whole, and with limited exceptions only, the July weather was favorable on agricultural interests throughout the month. The exceptions were due to excessive precipitation in the extreme northeastern portions, and to drought centered in Fairfield county, although scattered localities elsewhere had insufficient rainfall, but no crop suffered seriously from lack of moisture, and all made some improvement in their condition.

The temperatures were equable and never excessive, although maximum temperatures of 100°, or over, were noted at a few points, and on several days. The nights were uniformly warm, and no cool period usual to the month occurred.

There was generally enough precipitation to keep field crops growing, and enough dry weather and sunshine to enable farmers to rid cultivated fields of weeds and grass that had attained a rank growth at the close of June.

The improvement in cotton began early in July, and as the month advanced and the fields were cleaned and cultivated, the improvement became marked and general. The plants lost their sickly cast, became green, looked healthy, and began to grow and fruit rapidly, but they did not fully overcome their previous backwardness, and continued to be unseasonably small and late.

Early corn ripened during the month, but was too nearly ruined to be benefited by the favorable weather of the month, and is a very short crop. Late planted corn, especially that planted on stubble lands, became quite promising, but river bottoms where usually the finest corn is raised, were largely abandoned owing to the rank growth of grass and weeds and the freshets of the previous month.

As oats thrashing progressed, it showed that much of the grain was light and shrunken, due, it is reported, to the heavy rains at time of blooming. Minor crops, both food and forage, gained in condition. Peaches rotted extensively and many were wormy. Apples dropped more than usual. Tobacco cutting and curing began early in the month, but later some of the crop took on new growth, delaying this work. The crop was not as good as usual. Rice did well, and began to head. In the truck raising districts, the weather was fav-

orable for plowing and preparing lands for fall seeding, and for setting out plants. Many sweet-potato slips were planted and peas sown during the month. The agricultural outlook was decidedly more encouraging at the close of this month than at the close of June.

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for July, 1901, was 81.4°, which is 1.9° above the normal. The highest local mean was 82.8° at Little Mountain and Winnsboro; the lowest 77.9° at Walhalla. The highest recorded temperature was 102° at Batesburg and Longshore, on the 25th, the lowest minimum was 62° at Walhalla on the 19th, making the State range 40°. The greatest local range was 36° at Greenwood, Longshore, and Santuc, the least was 22° at Charleston. The mean of the daily maximum temperatures was 90.6°, of the daily minimum temperatures was 72.1°. The maximum temperature rose to 100°, or above, on four dates and at ten stations.

Precipitation, in Inches.

The average precipitation was 4.52 inches, which is 1.85 inches below the normal. Excessive monthly precipitation was confined to the eastern and northeastern counties, and comprised less than one-fourth of the area of the State. Over the remainder of the State there was a deficiency. The greatest local amount was 13.25 inches at Georgetown, the least was 0.65 at Winnsboro. The greatest 24-hourly fall was 4.15 inches at Georgetown, on the 13th. The average number of of days with rain was 10, ranging from 6 at Anderson, Calhoun Falls, Greenwood, St. Stephens, Trenton and Winnsboro to 16 at Charleston.

Excessive Precipitation.—Anderson, 8th, 1.30 in 30 minutes; Cheraw (2), 15-16th, 2.64 in 24 hours, Columbia, 14th, 1.04 in 1 hour; Georgetown, 13th, 4.15 in 24 hours, also on 26th, 2.50 in 24 hours; Greenville, 18-19th, 2.80 in 24 hours; Liberty, 26th, 0.96 in 1 hour; Longshore, 14th, 1.50 in 1 hour, also on 18th, 2.54 in 3 hours; Society Hill, 6.00 in 48 hours; Temperance, 14th, 3.40 in 24 hours.

Hail.—Anderson, Camden, 25; Society Hill, 27; Statesburg, Trenton, 31; Winthrop College, 14.

Weather.—The average number of clear days was 12, of partly cloudy days 12, and of cloudy days 7.

Winds.—The prevailing direction of the wind was from the southwest at 21 stations, from the south at 15 stations, from the west at 3 stations, and from the north, northeast, and southeast at 1 station each.

High Winds.—Beaufort, 12; Charleston, 14; Columbia, 14, 16, 26, 27, 31; Darlington, 25, 27.

MORE VOLUNTARY OBSERVING STATIONS.

It has been deemed desirable to increase the number of voluntary observing stations in South Carolina, so that full



reports will be received from every county in the State. To this end the stations at Camden, Conway and Gaffney have been supplied with thermometers and instrument shelters, and new stations have been authorized at Sumter, Bowman, Barksdale, Seivern, and Due West, and supplied with the full outfit. It is the intention to increase the number of voluntary observing stations to at least twice the present number, if suitable observers can be secured. Chester, Clarendon, Colleton, Lancaster and Saluda counties are without stations of any kind, and lower Abbeville, western Chesterfield, and northwestern Spartanburg are also desirable locations for stations.

#### MISCELLANEOUS PHENOMENA (with dates).

Lunar Corona.—Santuc, 1, 5.

Lunar Aureola.—Gillisonville, 1.

Parhelia.—Liberty, 29; Santuc, 28.

Lunar Halos.—Charleston, 2, 3, 5, 6; Columbia, 1; Gillisonville, 25, 26.

Solar Halos.—Charleston, 4, 5, 7, 10, 11, 17, 18, 19; Gillisonville, 9; Santuc, 5, 10; Statesburg, 5, 6; Walhalla, 10.

Fogs.—Blackville, 23; Gillisonville, 28; Greenville, 2; Liberty, 1, 2, 20, 23; Society Hill, 20, 28; Walhalla, 2.

Thunderstorms.—Beaufort, 1, 6, 8, 9, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 26, 27, 31; Blackville, 8, 11, 15, 16, 17, 18, 19, 20, 21, 26; Camden, 14, 15, 16; Charleston, 1, 2, 8, 13, 14, 16, 17, 19, 20, 26, 31; Cheraw (2), 14, 15, 16, 18, 19, 26, 27, 30, 31; Columbia, 1, 7, 14, 16, 18, 22, 27, 29, 31; Darlington (severe), 25; Gillisonville, 1, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 26, 27, 29, 31; Greenville, 15, 17, 18, 27; Liberty, 5, 6, 7, 8, 13, 15, 16, 17, 18, 19, 20, 25, 26, 27, 28, 30; Little Mountain, 18, 22, 31; Longshore, 14, 17, 18, 19, 25; Santuc, 8, 14, 17, 18, 26, 27, 28, 30; Society Hill, 14, 15, 21, 25, 27, 31; Spartanburg, 15; Statesburg, 13, 14, 15, 16, 19, 22, 25, 27, 28, 30, 31; Summerville, 19, 20, 26, 31; Trenton, 1, 16, 17, 18, 19, 31; Trial, 14, 16, 18, 19, 31; Walhalla, 6, 7, 15, 16, 17, 18, 19, 20, 25, 26; Winthrop College, 14, 15, 16, 17, 18, 26, 27, 31; Yorkville, 8, 18, 19, 28, 31.

#### ERRATA.

June, 1901, monthly report, on page 5, mean temperature at Georgetown, 76.3°, should be 76.2°; same page, mean temperature at Gillisonville, 78.3°, should be 78.4°.

#### REMARKS BY OBSERVERS.

Yorkville.—Frequent thunderstorms at a distance.—J. R. Schorb.

Batesburg.—Month very dry. Lightest July rainfall in past 20 years.—E. J. Hite.

Society Hill.—Excessive precipitation was damaging to cotton, corn and tobacco.—Maj. J. J. Lucas.

Summerville.—General direction of the wind was southeast to southwest. Average relative humidity for July was 80 per cent.—Prof. John Gadsden.

Liberty.—Crop conditions are much improved this month, and but little cultivated land abandoned except river bottoms, in this section. Most low-lying bottoms entirely lost. Cotton small but doing well.—John T. Boggs.

Beaufort.—Mean temperature is 1.1° below normal; precipitation is 1.59 inches less than normal. Cotton improved very much during the last three weeks of July. Corn is mostly very light. Fodder pulling was begun.—S. M. Benton.

Anderson.—Cotton grew fast and fruited well where it is large enough. Corn improved. Heavy wind and hail in some localities, on the 25th, did much damage to crops. Good rains fell over the county during the last week of July.—R. B. Dean.

Santuc.—There were several almost calm days when it was difficult to determine the direction of the wind; during this time the heat was oppressive. All the rains of the month, except on the 18th and 19th, came from small floating clouds, and were local. Much thunder prevailed.—E. W. Jeter.

Gillisonville.—Month warm and showery, and crops were much benefited. Corn laid by with fair prospect for a good crop. Cotton has not recovered from its previous low condition sufficiently to remove doubts as to its probable yield; a few fields are good and the majority exceedingly poor.—Sam P. Saltus.

Trenton.—Precipitation 3.03 inches less than the 9-year average for July, and 3.17 inches more than the 8-year average for the first seven months of the year. 31st, p. m., severe wind and electric storm occurred; it blew down corn, some trees and a building; 2 mules, a mare and a colt were killed by lightning in a pasture, under tall pine trees.—C. A. Long

#### EDITORIAL NOTE

Reports for July were not received from Clemson College and McColl in time to be included in the summary.

The station at Shaws Fork has no thermometers at present pending its removal to Aiken.

The station at Darlington has been furnished a set of thermometers and an instrument shelter, completing its full equipment.

The Weather Bureau will no longer furnish weather temperature flags to display in places having more than 5,000 inhabitants. If the display is desired at such cities, the flag must be provided locally.



## CLIMATOLOGICAL DATA FOR THE MONTH OF JULY, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall. (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		Prevailing direction of wind.
Allendale	Barnwell	186	13	83.3	+2.5	99	26	70	*13	25	3.87	-2.44	1.30	.....	9	16	8	7	.....	B. F. Wilson.
Anderson	Anderson	892	0	82.1	+4.0	99	*25	69	*25	30	4.20	-0.94	1.40	.....	6	2	29	0	.....	R. B. Dean.
Augusta, Ga.	Richmond	134	30	82.0	+1.2	99	11	70	11	29	3.44	-1.87	1.05	.....	11	11	15	5	.....	Weather Bureau.
Batesburg	Lexington	656	13	82.6	+3.0	102	*25	68	10	28	.82	-6.86	0.25	.....	7	17	8	0	.....	E. J. Hite.
Beaufort	Beaufort	28	15	81.5	-0.5	96	12	72	*2	21	4.48	-1.59	1.23	.....	12	16	13	2	.....	S. M. Benton.
Blackville	Barnwell	293	13	82.7	+1.4	101	26	69	*2	31	2.97	-3.18	0.86	.....	13	7	23	1	.....	G. D. C. Lange.
Calhoun Falls	Abbeville	354	8	.....	.....	.....	.....	.....	.....	.....	2.09	-5.08	0.92	.....	6	27	0	4	.....	ne. P. J. Pfeiffer.
Camden	Kershaw	222	35	.....	.....	.....	.....	.....	.....	.....	3.69	-0.28	1.11	.....	14	15	8	8	.....	sw. B. Ammons.
Charleston	Charleston	48	32	81.0	-0.8	93	26	71	10	18	5.53	-2.05	1.63	.....	16	5	17	9	.....	sw. Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	23	80.0	0	95	30	66	8	25	6.38	+0.99	3.71	.....	14	15	7	9	.....	sw. Weather Bureau.
Cheraw (1)	Chesterfield	114	13	81.4	+1.1	96	*26	67	10	24	6.20	+0.29	2.40	.....	11	9	6	16	.....	sw. W. R. Godfrey.
Cheraw (2)	.....	108	8	.....	.....	.....	.....	.....	.....	.....	5.66	-1.49	2.64	.....	11	11	10	10	.....	sw. Jno. H. Powe.
Clemson College	Oconee	850	10	80.6	+1.7	99	11	65	9	30	2.56	-3.62	0.88	.....	7	5	20	6	.....	sw. Prof. C. C. Newman.
Columbia	Richland	351	14	81.8	+1.2	100	25	67	14	26	2.58	-3.02	1.20	.....	12	9	21	1	.....	sw. Central Office.
Conway	Horry	49	10	.....	.....	.....	.....	.....	.....	.....	7.87	+0.93	2.00	.....	10	11	6	14	.....	sw. P. Quattlebaum.
Darlington	Darlington	175	6	.....	.....	.....	.....	.....	.....	.....	6.69	.....	1.75	.....	12	11	11	9	.....	sw. E. R. McIvor.
Edisto	Bamberg	143	8	.....	.....	.....	.....	.....	.....	.....	2.89	-3.05	0.58	.....	11	12	10	9	.....	sw. Miss Jerry Carter.
Edlingham	Florence	106	9	.....	.....	.....	.....	.....	.....	.....	4.10	-1.08	1.15	.....	8	13	8	10	.....	sw. A. J. Howard.
Florence	Florence	156	13	82.7	+1.6	98	*25	68	10	25	4.37	-1.56	1.59	.....	10	16	0	15	.....	sw. H. K. Gilbert.
Gaffney	Cherokee	.....	5	.....	.....	.....	.....	.....	.....	.....	2.47	.....	0.76	.....	11	15	7	9	.....	sw. B. F. Camp.
Georgetown	Georgetown	12	8	82.2	+2.0	97	28	70	10	21	13.25	+5.01	4.15	.....	9	22	2	7	.....	sw. W. T. Turbeville.
Gillisonville	Hampton	.....	6	81.8	+0.7	101	30	66	5	31	4.64	.....	0.81	.....	14	16	4	11	.....	sw. Sam P. Sults.
Greenville	Greenville	1,000	9	77.9	+1.7	93	25	65	10	30	4.51	-2.42	2.80	.....	7	26	0	5	.....	sw. Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	13	81.2	+1.4	101	25	65	10	28	2.58	-3.24	0.88	.....	6	18	0	13	.....	sw. M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sw. B. C. Hawkins.
Kingstree (1)	Williamsburg	77	13	80.3	-0.3	94	11	66	10	22	2.33	-3.87	0.49	.....	7	13	8	10	.....	sw. C. J. Lesesne.
Kingstree (2)	.....	77	7	.....	.....	.....	.....	.....	.....	.....	2.39	-4.29	0.51	.....	7	14	6	11	.....	sw. W. H. Matthews.
Liberty	Pickens	.....	7	79.1	+0.3	95	25	66	9	25	6.89	.....	2.40	.....	10	20	11	0	.....	sw. Jno. T. Boggs.
Little Mountain	Newberry	711	8	82.8	+2.6	100	*11	67	11	27	2.13	-4.84	0.80	.....	9	9	20	2	.....	sw. John M. Sease, M. D.
Longshore	Newberry	530	8	82.0	+2.8	102	25	66	10	32	5.51	-1.32	2.54	.....	9	1	22	8	.....	sw. W. G. Peterson.
McClellan	Marlboro	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sw. N. L. Thayer.
Pimopolis	Berkeley	.....	8	79.4	+0.6	94	31	62	9	25	3.93	-2.76	1.28	.....	9	8	19	4	.....	sw. E. P. Ravenel.
Raleigh, N. C.	Wake	376	15	80.2	+0.2	98	25	66	9	25	7.14	+0.55	2.14	.....	15	8	15	8	.....	sw. Weather Bureau.
St. Georges	Dorchester	109	13	81.2	+1.0	96	25	69	10	23	5.22	-1.49	1.99	.....	8	12	8	11	.....	sw. W. B. Raysor.
St. Matthews	Orangeburg	254	13	81.7	+1.7	98	25	70	2	22	3.05	-3.99	1.10	.....	7	11	10	10	.....	sw. J. S. Wannamaker.
St. Stephens	Berkeley	73	9	.....	.....	.....	.....	.....	.....	.....	3.70	-3.24	1.73	.....	6	12	9	10	.....	sw. C. T. Shuler.
Santee	Union	512	8	81.4	+2.8	100	30	64	10	30	2.66	-2.83	1.41	.....	7	8	20	3	.....	sw. E. W. Jeter.
Savannah, Ga.	Chatham	71	32	81.0	-0.7	96	12	70	16	23	3.69	-2.02	1.57	.....	12	11	11	9	.....	sw. Weather Bureau.
Shaw's Fork	Aiken	500	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sw. Geo. H. Atwood.
Smiths Mills	Williamsburg	62	6	.....	.....	.....	.....	.....	.....	.....	6.65	.....	1.30	.....	9	15	5	11	.....	sw. H. van Keuren.
Society Hill	Darlington	192	10	81.4	+2.9	96	25	68	9	22	9.61	+2.46	3.30	.....	11	10	12	9	.....	sw. J. J. Lucas.
Spartanburg	Spartanburg	875	10	81.6	+2.5	98	26	66	10	26	3.49	-1.04	1.65	.....	8	19	2	9	.....	sw. F. P. Robinson.
Statesburg	Sumter	500	21	81.3	+2.6	96	25	68	10	24	4.27	-1.25	1.74	.....	10	7	16	8	.....	sw. W. W. Anderson, M. D.
Summerville	Dorchester	.....	4	79.4	+0.2	95	*23	67	9	23	5.15	-0.06	1.56	.....	11	13	16	2	.....	sw. Prof. Jno. Gadsden.
Temperance (b)	Marion	100	3	81.2	.....	100	25	66	9	28	10.40	.....	3.40	.....	14	6	11	10	.....	sw. J. R. Reeves.
Trenton (a)	Edgefield	620	8	82.3	+1.6	96	27	72	11	22	3.33	-4.72	1.76	.....	6	2	29	0	.....	sw. C. A. Long.
Trial	Berkeley	.....	15	79.0	+0.5	95	*25	65	10	23	1.13	-6.04	0.70	.....	8	6	18	7	.....	sw. W. W. Etsell Gaillard.
Walhalla	Oconee	1,061	11	77.9	-1.4	95	*11	62	19	27	2.84	-3.78	0.90	.....	6	16	15	0	.....	sw. S. M. Pagan.
Wilmington, N. C.	New Hanover	52	32	80.0	-0.4	95	25	66	9	21	8.25	+1.29	2.74	.....	12	8	11	12	.....	sw. Weather Bureau.
Winnboro	Fairfield	545	12	82.8	+3.7	100	*25	67	10	26	.65	-5.22	0.27	.....	6	18	13	0	.....	sw. John W. Seigler.
Winthrop College	York	690	2	81.0	.....	96	*25	67	*9	24	4.08	.....	1.63	.....	9	10	20	1	.....	sw. Geo. B. Green.
Yemassee	Beaufort	23	6	82.6	.....	99	*25	69	*5	26	4.64	.....	0.91	.....	8	13	8	10	.....	sw. R. G. Smith.
Yorkville	York	680	13	82.7	+3.8	99	30	69	*9	27	3.06	-3.11	0.56	.....	9	11	14	6	.....	sw. J. R. Schorb.
MEANS—highest, lowest and dates, etc.				81.4	+1.9	102	*25	62	19	32	4.52	-1.85	4.15	.....	10	12	12	7	.....	sw.

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

† Mean from 7 a. m., and 9 and 2 p. m. observations.



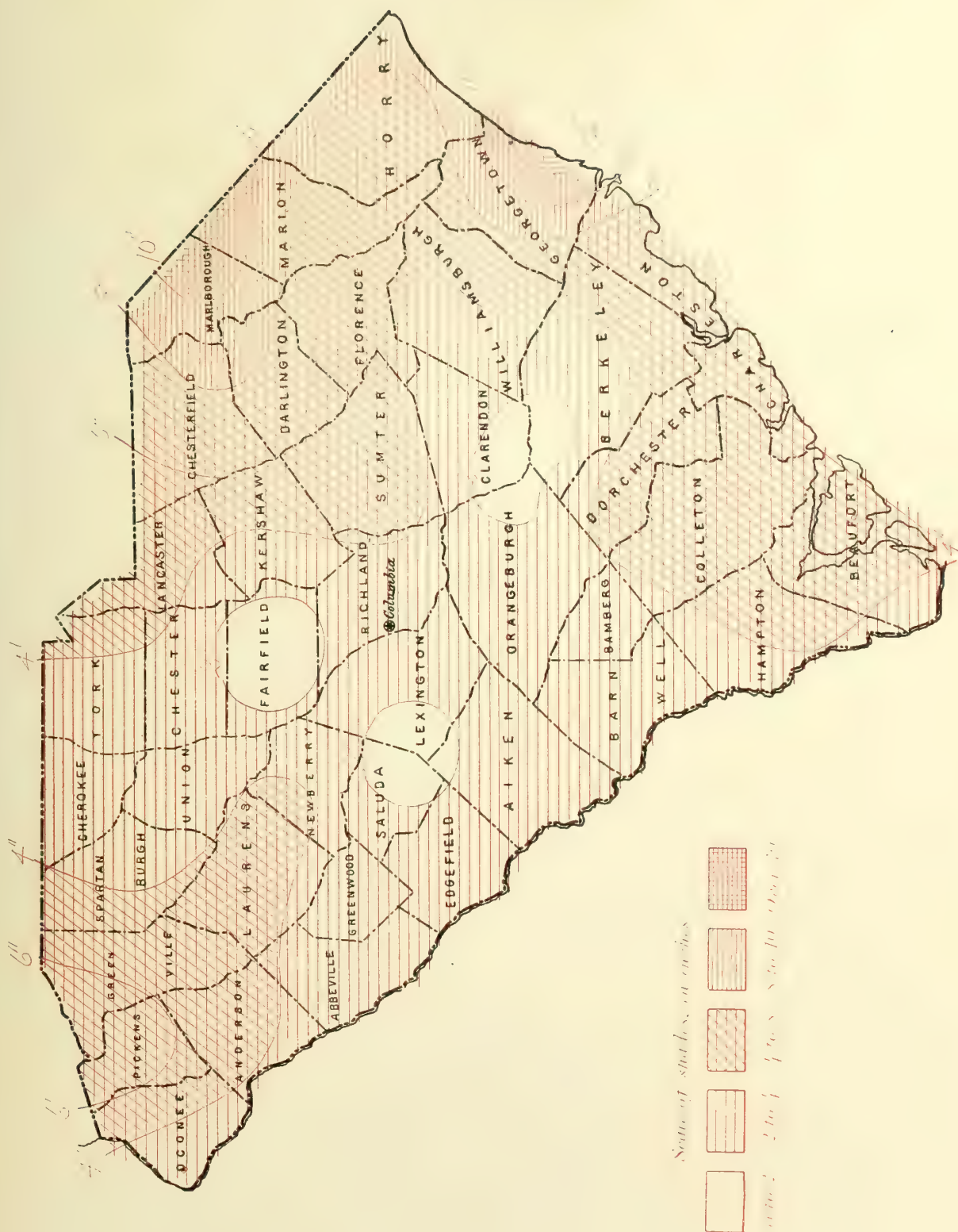
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JULY, 1901.

STATIONS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly mean.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.				
Allendale.....	97	75	97	71	92	72	93	74	94	76	92	72	93	71	92	70	94	72	91	86	71	92	72	91	89	72	94	74	97	71	94	75	96	76	93.6	73.0	
Anderson.....	94	71	94	72	92	72	93	73	93	73	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92.8	71.4	
Augusta, Ga.....	89	73	88	71	91	74	90	75	92	76	90	75	92	76	90	75	92	76	90	75	92	76	90	75	92	76	90	75	92	76	90	75	92	76	91.1	73.2	
Batesburg.....	93	72	94	71	95	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	93.3	71.8	
Beaufort.....	83	75	89	72	90	73	87	76	89	74	80	73	88	73	88	73	88	73	88	73	88	73	88	73	88	73	88	73	88	73	88	73	88	73	88.7	74.3	
Blackville.....	91	73	92	69	94	73	93	74	93	74	93	74	93	74	93	74	93	74	93	74	93	74	93	74	93	74	93	74	93	74	93	74	93	74	93.0	72.4	
Charleston.....	84	72	86	74	87	76	86	74	84	76	83	75	87	71	93	75	87	73	86	75	88	73	85	74	91	76	82	78	93	73	98	73	98	76	97.1	75.4	
Charlotte, N. C.....	92	69	83	74	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92	73	92.1	71.0	
Cheraw (Fl.).....	86	70	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92	75	92.3	68.9	
Clemson College.....	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94	71	94.3	73.6	
Columbia.....	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92	72	92.5	72.5	
Florence.....	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95	70	95.1	74.3	
Georgetown.....	89	77	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92	78	92.8	70.2	
Gilsumville.....	84	73	95	75	94	78	93	88	74	89	75	92	84	71	92	72	87	71	90	71	90	71	90	71	90	71	90	71	90	71	90	71	90	71	92.8	70.7	
Greenville.....	88	66	89	67	88	70	89	70	88	70	88	70	88	70	88	70	88	70	88	70	88	70	88	70	88	70	88	70	88	70	88	70	88	70	88.0	68.0	
Greenwood.....	91	72	95	71	96	73	93	71	96	73	93	71	96	73	93	71	96	73	93	71	96	73	93	71	96	73	93	71	96	73	93	71	96	73	92.5	70.9	
Horse Cove, N. C.....	88	71	88	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	89	70	88.8	71.8	
Kingstree (Fl.).....	81	67	82	72	91	72	87	74	89	70	87	74	89	70	87	74	89	70	87	74	89	70	87	74	89	70	87	74	89	70	87	74	89	70	87.9	70.2	
Liberty.....	95	71	94	70	95	71	93	75	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	92.1	72.1	
Little Mountain.....	93	72	94	72	96	74	88	75	92	72	87	68	90	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85.0	68.0	
Longshore.....	93	72	94	72	96	74	88	75	92	72	87	68	90	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85.0	68.0	
McClell.....	95	76	86	74	87	72	84	72	87	76	86	76	85	70	90	74	85	77	80	74	84	76	84	76	84	76	84	76	84	76	84	76	84	76	84.0	70.5	
Pinopolis.....	94	72	92	70	91	72	86	74	90	70	87	74	89	70	87	74	89	70	87	74	89	70	87	74	89	70	87	74	89	70	87	74	89	70	87.9	70.2	
St. Georges.....	92	74	90	70	93	73	86	76	91	73	86	76	91	73	86	76	91	73	86	76	91	73	86	76	91	73	86	76	91	73	86	76	91	73	86.0	70.2	
St. Matthews.....	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94.0	74.0	
Santee.....	91	67	93	70	95	71	96	73	92	72	87	68	90	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85	66	85.0	68.0	
Savannah, Ga.....	84	75	89	73	88	75	87	74	88	74	79	72	88	73	89	72	85	76	90	71	87	76	89	70	87	76	89	70	87	76	89	70	87	76	89.0	72.5	
Shaw's Fork.....	90	74	91	75	93	73	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	89.0	72.5	
Society Hill.....	97	68	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94	72	94.0	74.0	
Spartanburg.....	90	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92	71	92.0	72.0	
Statesburg.....	84	70	87	70	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86	73	86.0	70.0	
Summerville.....	90	70	91	74	90	72	92	74	90	72	92	74	90	72	92	74	90	72	92	74	90	72	92	74	90	72	92	74	90	72	92	74	90	72	92.0	72.0	
Temperance.....	95	76	91	75	90	74	86	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	89.0	71.8	
Trenton.....	88	75	88	73	89	76	88	74	90	76	88	74	90	76	88	74	90	76	88	74	90	76	88	74	90	76	88	74	90	76	88	74	90	76	89.0	71.8	
Trul.....	86	67	88	70	88	69	88	70	85	70	84	70	85	70	84	70	85	70	84	70	85	70	84	70	85	70	84	70	85	70	84	70	85	70	88.0	70.0	
Walhalla.....	90	70	90	69	90	67	90	66	83	65	86	65	83	63	88	63	95	71	92	67	85	69	90	67	85	69	90	67	85	69	90	67	85	69	88.7	67.1	
Wadsworth.....	90	70	91	74	93	75	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	89.0	72.0	
Winthrop College.....	90	68	91	72	92	73	92	73	90	76	88	74	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	88	74	92	74	90	76	89.0	72.0	
Yemassee.....	96	72	84	70	91	73	92	95	69	83	74	93	71	92	72	93	71	92	72	93	71	92	72	93	71	92	72	93	71	92	72	93	71	92	72	92.9	72.5
Yorkville.....	93	70	90	71	93	72	95																														

\* 100 \*\* 101 † 102



# TOTAL PRECIPITATION FOR JULY, 1901.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JULY, 1901.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Allendale		1.30										.09			.12		.10	.96	.15	.10	.40											3.87	
Anderson												.20	.10			T.	T.	.50	T.							1.40	T.	.65			.70		4.20
Augusta, Ga.	.83						T.						.06			T.	.05	.25	.83	.10	.02		T.				.08	.18		.01		.03	3.44
Batesburg	T.	.05											.15						.15	.10			T.						.10	.02	.25		.82
Beaufort	.12		T.		.12	.01		.87	.18			.89	T.	.32	.09	.06		T.	.38	T.	.21	1.23										T.	4.48
Blackville	.44	.01						.01	.06	T.					.10		.15	.02	.77	.07	.30	.07	.10					.86					2.97
Calhoun Falls														.12			.49	.92											.16	.22	.18	2.09	
Canden	.32						T.	T.	.01			T.	.01	.32	1.02	.02	.06		.03	.66	T.	.01	.02			.01	.03	1.11				3.69	
Charleston	.38				.54			.30	1.63			T.	.20	.16	.30	.02			.03	.01	.45	.37	.01			.17	.02					.34	5.53
Charlotte, N. C.					.01	.34	.13	.37				T.	.03	.52	.85	.30	.01	.20	.03								.04		T.	.11	.10	6.38	
Cheraw(1)									.99				.62	.16	.32	2.40	.34		.57	.28		.03						.21				.28	6.20
Cheraw(2)							T.			.45			.67	.16	.23	2.64	.40		.48	.14		.04						.19				.26	5.66
Clemson College				.39							.46			.10			.07	.34							.32	.88							2.56
Columbia	.08						T.					.05	1.14	.06	.10		.07	.91		.05	T.						.03	.04	.01	.04	T.	2.58	
Conway	.87								.15			T.	1.67	1.23	.30	.15	.10				2.00	1.30	.10									7.87	
Darlington, near								T.	T.	.25			.30	.64	1.75	.58		.37	1.08		.10	.01			.48		.41	.02				.95	6.69
Edisto	.55													.10		.24			.58	.10	.50	.10	.06			.35		.06				2.89	
Edlingham	.45												.40	.25	.60	1.15		T.	T.	T.	.68	.27		T.					.30			4.10	
Florence												.38	.45	1.59	.79			.09	.05				T.			.32	.14	.46				3.47	
Gaffney	.76						.15		.11			.26	.09		.03	.38			.39							.13	.10	.04				2.47	
Georgetown			1.05					1.10				1.50	4.15			.50	.75	.40								2.50					1.30	13.25	
Gillisonville	.64				T.			.18	.77		T.		.67	.16	.23	.81	.06	.12	.29	T.	.12	.36	.28	.53		.20						4.64	
Greenville	.22					.45							.01			.25		2.80								.28	.50					4.51	
Greenwood	T.								.10							T.		.88	.40						.30	.70						2.58	
Horse Cove, N. C.																																	
Kingstree(1)	.04												.41	.38				.18	.35	.48								.49				2.33	
Kingstree(2)	.06												.40	.42				.18	.36	.46								.51				2.39	
Liberty				.32	.66							.33	.67		.63	.09	T.	.50	2.40						T.	.96	.33		T.	T.		6.89	
Little Mountain							T.	.03					.12	.03			.16	.80	.74		T.	.13									.12	2.13	
Longshore													1.66				.74	2.54	.06						.06	.10	.03			.25	.07	5.51	
McColl																																	
Pinopolis	.34				.20						.17	.54	.01					.98	1.28							.03						.38	3.93
Raleigh, N. C.		.02	.78			T.	.60	1.14	.07		.02	2.14	.58	.11	.02		.11	1.15	.01	T.					.09						.30	7.14	
St. Georges	1.99																.10		.20	.15	.20	1.98	.10			.50						5.22	
St. Matthews	1.10								.15							.25			.03		.35	.82	.10			.35						3.05	
St. Stephens	1.73												.44	.28						.10	.95						.27					3.70	
Santuc						T.	T.	.41	.51				T.	.01			.10	.44	.97									.22		T.		2.66	
Savannah, Ga.	.06		T.	T.	.03	T.		1.57	.20	.04		T.		.07	.02	.43		T.	.40	.05	.19	.63										3.66	
Shaws Fork																																	
Smiths Mills	.30							T.	1.30				.50	1.00	.70	.70			T.	.75	1.00	.40										6.65	
Society Hill									.15		.18	.20	2.70	3.30	.43			.02		.44					.40		1.43				.36	9.61	
Spartanburg	.13							.35				.35		.35		T.	.03	.57	1.1	1.65					.09	.32						3.49	
Statesburg	.02										T.	T.	.11	.62		.04		.96	.10		.21				.01	1.74					.46	4.27	
Summerville			.07	.03				.07	.03			.09	1.56	.12				.57	.32	.11	.23				.93							1.10	
Temperance								.28				1.05	.68	3.40	.44			.10	2.00	.13	.11	.09		T.	T.	.02	.20	.67			1.20	10.40	
Trenton												.15				T.		.48	.30							1.76		.05				.59	3.33
Trial	.04			T.	T.			T.	.12			.04				T.		.35	.38			.12										.03	1.13
Walhalla					.90									.65	.60	T.	T.	.22	.32						T.	.01	T.	.15				2.84	
Wilmington, N. C.				.02				.15	2.74	.09		.24	1.19	.98	.57	T.		.11	1.77	.38												8.25	
Winnsboro							T.					.04	.09			T.		.18								.06	.01	T.	.27			.65	
Winthrop College								.11			T.	.20	1.63			.47		.72	.43	.04					.42	T.						4.08	
Yemassee	.34							.80			T.		T.	.25	.08	.21	T.	.42	.51	.64	.70	.67	.12				.91					4.64	
Yorkville						T.		.28	.56		T.																	.24			.51	3.06	

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



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U.S. AG.

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR AUGUST, 1901.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

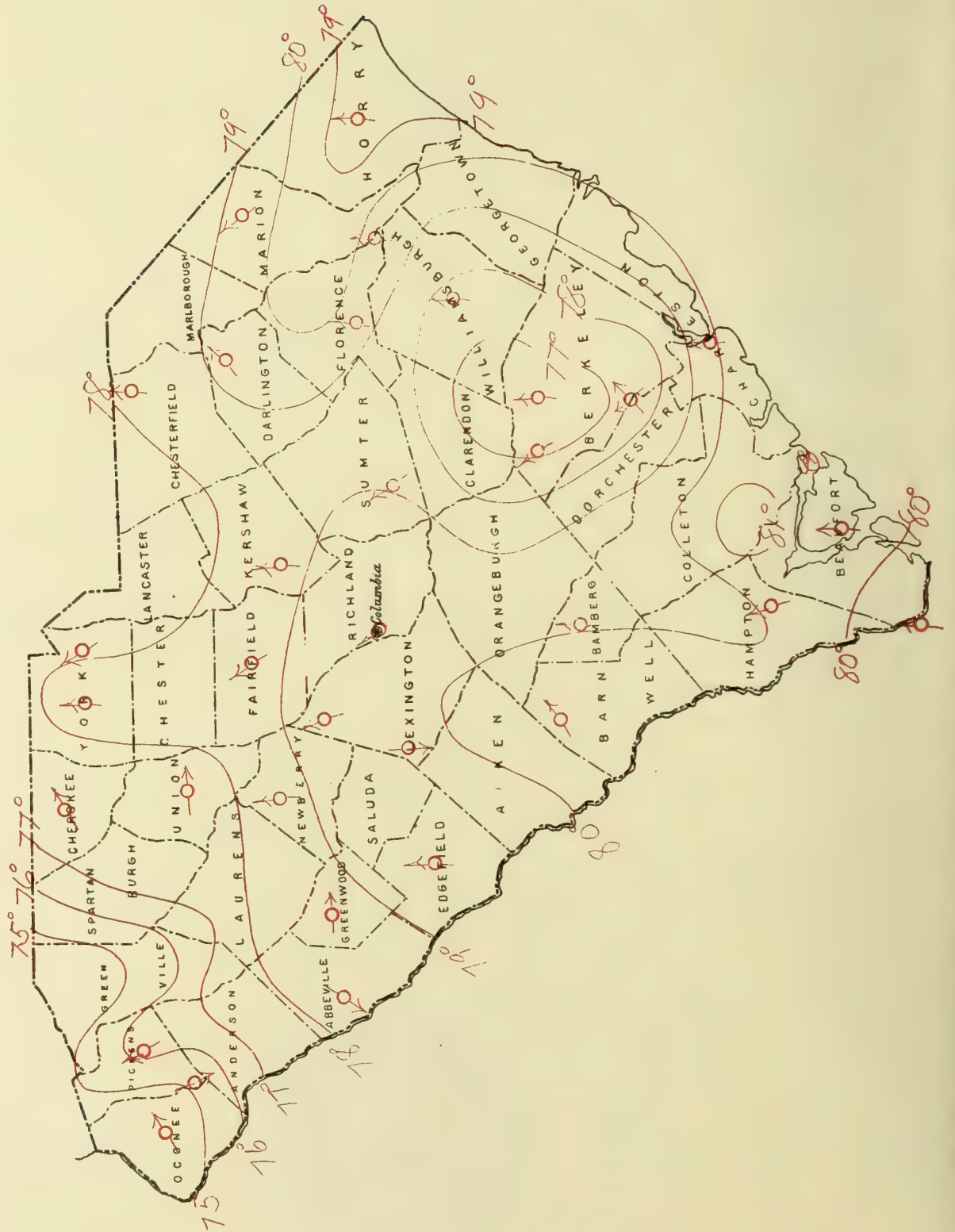


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR AUGUST, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., AUGUST, 1901. No. 8.

## CLIMATE AND CROPS.

The temperature conditions during August were extremely favorable on all growing and maturing crops. No abnormally hot weather occurred, and the night temperatures were never low enough to check growth, and varied but little from day to day. The average mean temperature was exactly normal.

In the matter of precipitation the month was not so favorable. There was an excess of rainfall over the western and northern portions of the State. Some points had from 10 to 13 inches more than the usual amount, the greatest excess having occurred in the extreme western portion, from which point there were gradually diminishing amounts to the southeastern portion where there was a deficiency of from one to over six inches. These conditions are a reversal of the normal distribution of precipitation during August, as the rainfall is usually heaviest over the eastern half of the State. Even where least fell, no injury or drought resulted, while the principal injury from the excessive rains was to cause overflows in the streams that destroyed bottom-land crops; some lands were also badly washed and eroded.

Early in the month cotton was late and undersized, but as the month advanced, and under the beneficial influence of moderate summer heat and plenty of moisture, the plants grew rapidly, so that by its close there was complaint of too great a growth of stalk and too little fruitage, while generally the plants were well fruited, although much of it was put on very late. Bolls began to open about the 15th, and the first bale was marketed on the 20th which is somewhat later than the usual date of the "first bale." Picking made little progress during the month. The condition of cotton improved steadily throughout August, and was very promising at its close. The wet weather caused some rotting of immature bolls, and on sandy lands growth stopped while rust and hedding developed over considerable areas.

Early corn received little or no benefit from the improved weather conditions, but late corn made rapid improvement, although the average condition was nevertheless somewhat lower than in July. Worms did much injury to corn.

Late tobacco cutting and curing was finished. This crop suffered slight deterioration. Rice made fair progress, and aside from injury due to numerous rice birds and to freshets,

the crop improved steadily. Sweet potatoes planted early began to yield, while slips continued to be transplanted. Forage crops grew luxuriantly. The soil was in excellent condition for plowing preparatory to planting fall truck crops. Fruits rotted extensively in the western portions of the State due to too much rain.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for August, 1901, was 78.6°, which is exactly normal. The highest local mean was 81.0° at Yemassee; the lowest 74.2° at Walhalla. The highest maximum temperature was 97° at Allendale on the 1st, and at Greenwood on the 11th; the lowest minimum was 57° at Clemson College on the 15th, and at Liberty on the 28th, making the State range 40°. The greatest local range was 37° at Clemson College, and the least 16° at Charleston. The mean of the daily maxima temperatures was 87.0°, and of the daily minima temperatures was 70.2°.

## Precipitation, in Inches.

The average precipitation was 9.01 inches, which is 2.70 inches above the normal. Excessive precipitation occurred over the northern, central, and western counties, while there was a deficiency over the southeastern portions. The greatest local amount was 19.32 inches at Liberty, the least 3.23 at Beaufort. The greatest 24-hourly fall was 6.55 at Calhoun Falls on the 28th. The average number of days with rain was 15, ranging from 9 at Trenton to 21 at Liberty.

Excessive Precipitation.—Anderson, 27-28th, 5.35 in 41 hours; Calhoun Falls, 28th, 6.55 in 24 hours; Camden, 6-7th, 3.13 in 24 hours; Cheraw (1), 5-6th, 4.30 in 24 hours; Cheraw (2), 5-6th, 4.16 in 24 hours; Columbia, 6-7th, 2.64 in 24 hours; Florence, 25th, 4.65 in 24 hours; Gaffney, 5-6th, 3.80 in 24 hours; Greenville, 14-15th, 2.46 in 24 hours; Greenwood, 29th, 2.75 in 6 hours; Liberty, 5-6th, 3.25 in 25 hours, and on 13-14; 4.05 in 11 hours, and on the 31st, 1.91 in 1 hour; Longshore, 26th, 2.56 in 12 hours, and on the 28th, 3.71 in 3 hours; Spartanburg, 5-6th, 3.28 in 13 hours, and on 13-14th, 3.52 in 16 hours; Statesburg, 6-7th, 3.11 in 16 hours; Walhalla, 5-6th, 6.40 in 21 hours; Winthrop College, 6th, 3.40 in 12 hours.

Hail.—None reported.

Weather.—Average number of clear days 7, of partly cloudy days 14, and of cloudy days 10.

Winds.—The prevailing direction of the wind was from the south at 18 stations, from the southeast at 12, from the southwest at 7, from the west at 2, and from the north, northeast and northwest at 1 station each.

High Winds.—Beaufort 7th; Charleston 25th; Columbia 5-19-20; Longshore 5th; Walhalla 19th.

ERRATUM.—On page 5, of monthly report for July, 1901, Greenwood, mean temperature, recorded 81.2°, should be 81.7°.



## REMARKS BY OBSERVERS.

Longshore.—This August is the wettest one on record.—W. G. Peterson.

Summerville.—Mean relative humidity 86 per cent. There was a deficiency of 2.12 inches in precipitation and the mean temperature for the past month was 4.2° cooler than August, 1900.—Prof. Jno. Gadsden.

Batesburg.—There was an abundance of rain, and all crops look well. Last year half of the cotton crop was open by September 1st, but this year there is scarcely any open. Peas and young corn are promising.—E. J. Hite.

Santuc.—The month was an exceedingly wet one, and little farm work could be done, and many field abandoned. Broad river on the east and Tyger on the west maintained an overflow stage nearly the entire month. Roads were at time almost impassable.—E. W. Jeter.

Liberty.—The excessive rainfall rotted most of the fruit, blasted much growing corn, and caused early corn to sprout. Early cotton is opening, but is sprouting and rotting. Late cotton made too rank a growth. Peas and late corn did well. Sweet potatoes grew too much to vine.—J. T. Boggs.

Anderson.—Not much cotton open at the close of the month and some of it sprouting; bolls are rotting and shedding badly. Some corn sprouted in the husk. Water courses were extremely high and lands were badly damaged by the excessive rains of the month.—R. B. Dean.

Gillisonville.—The month was warm and wet, rains did much damage to corn fodder. Cotton improved early in the month, but shedding and rust developed during the latter portion. Picking began on the 20th. Fall army worms did much damage to grass. Peas, potatoes and sugar cane did well.—Sam P. Saltus.

Trenton.—The heavy rains toward the close of the month caused cotton to rust and to shed badly. Picking began during the month. A great deal of corn fodder was damaged by the rains. Precipitation 0.38 more than the 9-year average for August, and 4.24 inches more than the 8-year average for the 8 months since January 1st.—C. A. Long.

## MISCELLANEOUS PHENOMENA (with dates).

Lunar Halos.—Gillisonville, 23, 25; Society Hill; 30.

Solar Halos.—Charleston, 1; Gillisonville, Statesburg, 29; Walhalla, 14.

Dense Fogs.—Anderson, 11, 13, 20; Blackville, 3, 10, 13, 15, 26, 29, 31; Camden, 3, 8, 10, 15, 24, 26; Cheraw (2), 8,

15, 16, 21, 24, 26; Clemson College, 6, 10, 19, 23; Liberty, 20, 24, 25, 26; Santuc, 8; Society Hill, 10, 15, 16, 21, 24; Statesburg, 3, 9, 10, 11, 12, 15, 16, 19, 24, 25, 26, 29, 31; St. Stephens, 11; Trial, 26, 27, 30, 31; Walhalla, 13.

Thunderstorms.—Batesburg, numerous; Beaufort, 1, 2, 5, 6, 7, 8, 19, 23, 25, 27, 28, 29; Blackville, 1, 2, 5, 6, 7, 12, 13, 20, 24, 27, 28; Camden, 25; Charleston, 6, 8, 9, 17, 20, 23, 24, 25, 27, 28, 30; Cheraw (2), 2, 5, 6, 12, 13, 20, 24, 25, 27, 28, 30; Columbia, 1, 5, 6, 11, 13, 16, 19, 20, 23, 24, 28, 30; Darlington, 6, 24; Gillisonville, 1, 2 (4 to 9), 11, 13, 14, 19 (21 to 25), 27, 28, 29, 30; Liberty, 5 (10 to 16), (18 to 31); Little Mountain, 11 (10 to 14), 27, 28, 30, 31; Longshore, 6, 10, 11, 13, 14, 15, 16, 19, 21, 26, 28, 31; Santuc, 5, 6 (10 to 14), 16, 19, 23, 24, 27, 28, 31; Spartanburg, 5; Statesburg, 1, 6, 14, 20, 23, 24, 27, 28, 30, 31; Summerville, 5, 9; Trenton, 1, 5, 6, 14, 17, 20, 22, 27, 28, 29, 30; Trial, 6, 16, 19, 21, 23, 24, 25; Walhalla, 13, 15; Winthrop College, 2, 5, 10, 15, 20, 23, 24, 31; Yorkville, 6, 11, 13, 17, 20, 24, 25, 28, 31.

## THE GULF STREAM.

(Mill's "Realm of Nature," pages 178-179.)

The level of the Caribbean Sea and Gulf of Mexico is raised considerably by the hot surface water continually pouring in from the southeast. Off the mouth of the Mississippi it is about 3 feet higher than off New York—an effect which may, however, be due in part to the attraction of the land. The Gulf Stream forced out through this reservoir through the Strait of Florida is a river of salt and very warm water (surface temperature 81°), 50 miles wide, 350 fathoms deep, and flowing at the rate of 5 miles an hour. On emerging from the Strait it is swept to the north close along the American coast by the branch of the north equatorial current, which had passed outside the West Indies and through the Bahamas. The Gulf stream sweeps the bottom clear of mud not only in the Strait but for a considerable distance northward. As it flows on, it grows wider and shallower; off Cape Hatteras it curves away from the American coast and coming within the range of the prevailing southwesterly winds, it is carried eastward across the Atlantic, spreading out like a fan and growing cooler as it flows. The Gulf Stream passes to the south of the Grand Banks of Newfoundland with a velocity of about one and one-half miles per hour, and its rate gradually diminishes to about 4 miles a day in the general North Atlantic drift. This drift of comparatively warm water forks into three, diverging toward the coast of Spain, the British Islands, Norway, and the southeastern coast of Iceland, stranding driftwood on that treeless island. The surface water of the tropics is thus being steadily poured into the temperate North Atlantic, where it drives the cold deep water toward the south, and gives rise to the highest temperature at great depths found in any part of the open ocean. The temperature of 40° occurs as deep as 900 fathoms off the west of Scotland, and seldom deeper than 300 fathoms in the tropics. This is the source which supplies the southwest wind with heat and moisture to modify the climate of western Europe.



CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record— years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.
Allendale	Barnwell	186	13	80.6	+1.1	97	1	61	31	26	6.75	-0.74	1.80	.....	10	8	13	10	.....	B. F. Wilson.
Anderson	Anderson	892	0	77.9	+1.2	95	10	65	*8	25	17.35	+11.74	2.70	.....	14	12	13	6	sw.	R. B. Dean.
Angusta, Ga.	Richmond	134	30	79.4	-1.0	92	9	66	28	22	8.65	+3.18	2.47	.....	18	7	17	7	se.	Weather Bureau.
Batesburg	Lexington	656	13	79.9	+1.3	96	1	67	25	29	6.62	+0.60	1.52	.....	13	15	9	7	n.	E. J. Hite.
Beaufort	Beaufort	28	15	80.5	-0.8	91	21	69	*26	20	3.23	-3.52	1.00	.....	14	3	21	7	s.	S. M. Benton.
Blackville	Barnwell	293	13	80.6	+0.9	94	10	66	31	25	4.33	-2.01	1.33	.....	14	3	28	0	sw.	G. D. C. Lange.
Calhoun Falls	Abbeville	354	8	.....	.....	.....	.....	.....	.....	.....	13.48	+5.87	6.55	.....	12	19	0	12	ne.	P. J. Pfeiffer.
Camden	Kershaw	222	35	.....	.....	.....	.....	.....	.....	.....	9.75	+4.77	3.41	.....	16	8	7	16	s.	B. Ammons.
Charleston	Charleston	48	32	80.1	0	88	11	72	2	13	4.95	-2.65	1.22	.....	15	2	26	3	s.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	23	77.0	0	90	10	63	2	26	10.66	+5.31	2.78	.....	22	5	10	16	s.	Weather Bureau.
Cheraw (1)	Chesterfield	114	13	78.5	+0.1	95	1	64	*2	25	12.25	+5.56	4.30	.....	17	2	8	21	s.	W. R. Godfrey.
Cheraw (2)	.....	108	8	.....	.....	.....	.....	.....	.....	.....	12.15	+5.82	4.16	.....	19	3	12	16	s.	Jno. H. Powe.
Clemson College(a)	Oconee	850	10	74.6	.....	94	1	57	15	31	13.17	+8.94	2.05	.....	16	1	16	14	nw.	Prof. C. C. Newman.
Columbia	Richland	351	14	79.0	-0.8	92	*4	66	*2	24	7.76	+0.91	2.64	.....	16	4	23	4	se.	Central Office.
Conway	Horry	49	10	.....	.....	.....	.....	.....	.....	.....	5.59	-1.05	1.60	.....	14	.....	.....	.....	s.	P. Quattlebaum.
Darlington	Darlington	175	6	.....	.....	.....	.....	.....	.....	.....	5.81	.....	1.70	.....	12	13	14	14	.....	E. R. McIver.
Edisto	Bamberg	143	8	.....	.....	.....	.....	.....	.....	.....	5.20	-1.26	1.55	.....	12	7	10	14	s.	Miss Jerry Carter.
Ellingham	Florence	106	9	.....	.....	.....	.....	.....	.....	.....	6.72	-0.21	1.15	.....	13	9	7	15	s.	A. J. Howard.
Florence	Florence	156	13	80.7	+0.6	96	1	67	2	22	9.96	+3.99	4.65	.....	16	12	8	11	.....	H. K. Gilbert.
Gaffney	Cherokee	.....	5	.....	.....	.....	.....	.....	.....	.....	16.26	.....	3.80	.....	17	5	12	14	sw.	B. F. Camp.
Georgetown	Georgetown	12	8	80.3	+0.2	91	8	68	7	22	7.40	+1.44	1.15	.....	13	16	13	0	sw.	W. T. Turbeville.
Gillisonville	Hampton	.....	6	80.0	-1.0	95	*4	65	*3	27	7.90	-2.08	2.37	.....	15	8	11	12	se.	Sam P. Saltus.
Greenville	Greenville	1,000	9	74.2	-1.8	89	1	62	8	22	15.92	+10.94	2.46	.....	20	11	5	15	.....	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	13	78.9	+0.3	97	11	65	*2	29	8.61	+4.01	2.75	.....	16	11	1	19	w.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	9	69.0	-2.4	83	4	57	2	24	26.43	+19.32	6.00	.....	23	5	6	20	.....	B. C. Hawkins.
Kingstree (1)	Williamsburg	77	13	77.8	-1.9	90	*4	65	*2	21	4.28	-2.52	0.96	.....	14	8	13	10	.....	C. J. Lesesne.
Kingstree (2)	.....	77	7	.....	.....	.....	.....	.....	.....	.....	3.85	-4.13	0.97	.....	13	6	14	11	s.	W. H. Matthews.
Liberty (a)	Pickens	.....	7	76.8	+0.2	92	*5	57	28	25	19.32	+13.04	3.70	.....	21	7	18	6	se.	Jno. T. Boggs.
Little Mountain	Newberry	711	8	79.1	0	96	1	65	*2	25	9.75	+4.56	2.00	.....	20	4	18	9	se.	John M. Sease, M. D.
Longshore	Newberry	530	8	78.9	+1.4	95	8	64	*2	27	12.08	+7.38	3.71	.....	17	5	10	16	s.	W. G. Peterson.
McCull	Marlboro	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. L. Thayer.
Pinopolis	Berkeley	.....	8	78.7	+1.2	88	4	68	3	16	3.61	-6.51	1.40	.....	10	8	20	3	se.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	15	78.0	+1.0	91	11	65	2	24	11.21	+5.04	2.61	.....	18	7	15	9	sw.	Weather Bureau.
St. Georges	Dorchester	109	13	79.3	+0.2	94	1	62	15	21	7.61	+1.17	1.98	.....	12	8	11	12	.....	W. B. Raysor.
St. Matthews	Orangeburg	254	13	79.6	-0.2	95	1	65	31	22	5.60	-1.05	1.63	.....	11	9	11	11	.....	J. S. Wannamaker.
St. Stephens	Berkeley	73	9	.....	.....	.....	.....	.....	.....	.....	7.94	-0.02	1.12	.....	19	8	12	11	s.	C. T. Shuler.
Santee	Union	512	8	77.7	+0.6	96	1	61	9	30	12.28	+7.87	2.28	.....	17	3	17	11	w.	E. W. Jeter.
Savannah, Ga.	Chatham	.....	32	79.8	-1.0	89	10	66	25	20	6.44	-1.51	1.56	.....	15	6	20	5	s.	Weather Bureau.
Smiths Mills	Williamsburg	62	6	.....	.....	.....	.....	.....	.....	.....	8.47	.....	1.15	.....	19	8	11	12	s.	H. van Keuren.
Society Hill	Darlington	192	10	79.7	+2.3	91	*5	67	1	23	5.50	-0.55	1.58	.....	13	10	17	4	sw.	J. J. Lucas.
Spartanburg	Spartanburg	875	10	77.6	-0.9	96	1	63	8	28	15.66	+11.13	3.52	.....	18	11	6	14	.....	F. P. Robinson.
Statesburg	Sumter	500	21	79.6	+2.5	91	11	67	2	22	5.17	-0.06	3.11	.....	16	4	15	12	se.	W. W. Anderson, M. D.
Summerville	Dorchester	.....	4	77.4	-2.6	87	8	66	30	17	7.78	-2.12	1.82	.....	18	15	15	1	s.	Prof. Jno. Gadsden.
Temperance	Marion	100	3	78.8	.....	94	*8	66	30	24	9.42	.....	1.70	.....	16	9	19	3	se.	J. R. Reaves.
Trenton	Edgefield	620	8	79.2	-0.3	89	*1	69	27	14	8.01	+0.36	2.20	.....	9	3	27	1	s.	C. A. Long.
Trial	Berkeley	.....	15	76.6	-0.8	90	*4	63	2	25	3.89	-4.17	0.71	.....	19	1	17	13	se.	Etsell Gaillard.
Walhalla	Oconee	1,061	11	74.2	-1.8	89	*1	61	*7	27	17.63	+12.70	6.40	.....	16	6	17	8	sw.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	32	78.6	0	89	5	68	2	17	6.82	-0.06	0.98	.....	17	5	16	10	s.	Weather Bureau.
Winnboro	Fairfield	545	12	78.8	+1.1	95	*1	65	2	27	9.16	+4.32	2.00	.....	12	13	16	2	se.	John W. Seigler.
Winthrop College	York	690	2	77.6	.....	91	*1	64	2	26	10.60	.....	3.40	.....	17	5	23	3	se.	Geo. B. Green.
Yemassee	Beaufort	23	6	81.0	+0.8	95	*4	67	31	23	5.11	.....	0.96	.....	10	7	12	12	.....	R. G. Smith.
Yorkville	York	680	13	78.8	+1.0	93	*4	65	25	24	12.75	+7.97	2.34	.....	16	6	12	13	s.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				78.6	0	97	*1	57	*15	31	9.01	+2.70	6.55	.....	15	7	14	10	s.	.....

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., and 9 and 2 p. m. observations.

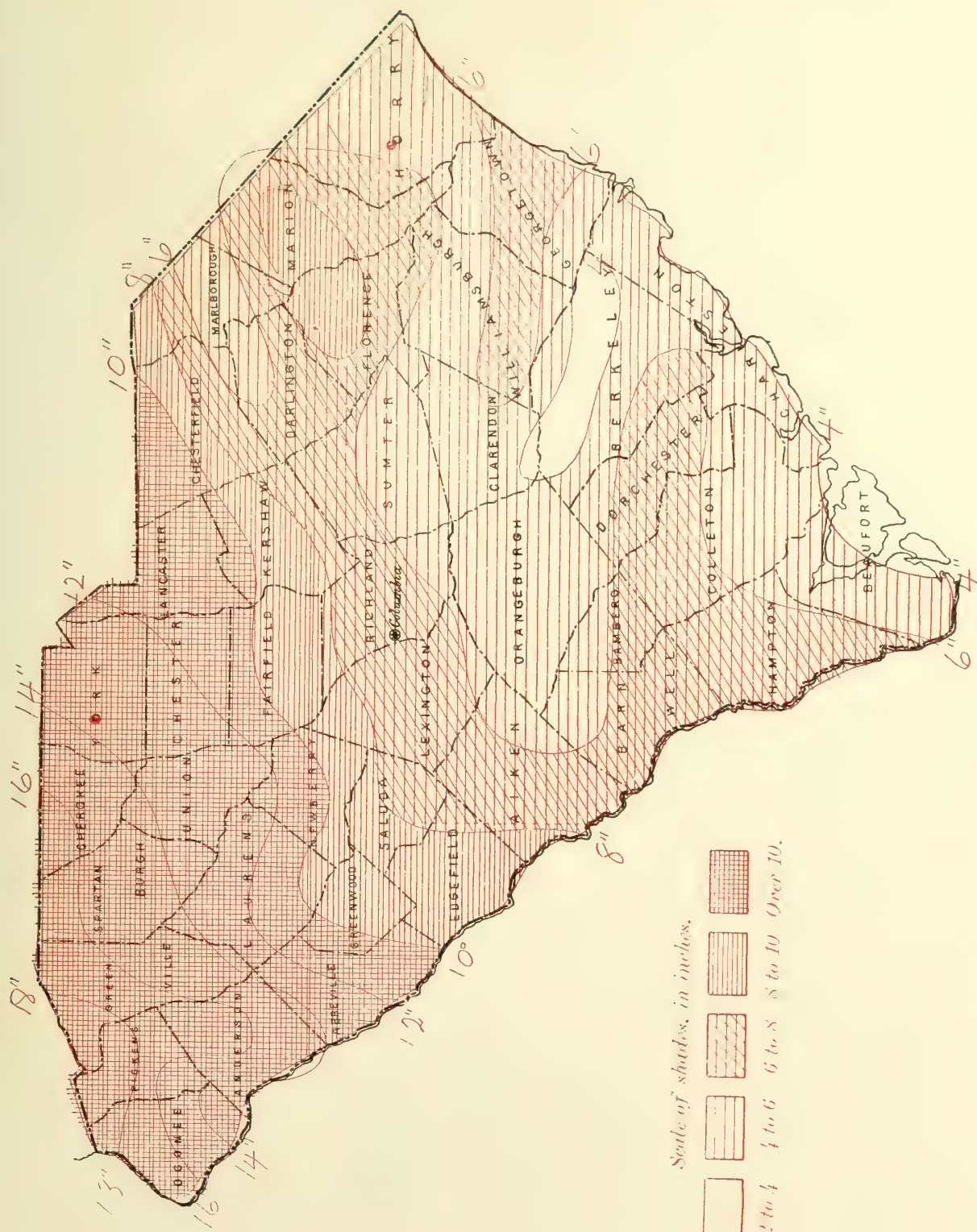


### STATIONS.

STATIONS.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly mean.					
Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.				
97	75	91	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85	70	88	72	91	89	72	87	85	88	71	88	71	86	70	84	71	87	61	89.8	71.5
99	71	92	66	85	71	90	68	90	72	85	72	91	74	90	74	89	73	85																				



# TOTAL PRECIPITATION FOR AUGUST, 1901.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1901.

STATIONS.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Allendale .....			T.		1.30	.20	.45			1.70			T.	.75	.60			1.05	1.80				.55	.10	.40			2.65	2.70	T.		.40	6.75	
Anderson .....			T.		.05	.42	2.47	.45	T.		T.	.05	.12		.20		.11	.09	T.	1.34		.01	T.	.06	.13				.37	1.25	1.38	.06	8.68	
Augusta, Ga. ....	.12					.35	1.30					.15	.05	T.	.10			1.05				T.		.05	.30	.05			.15	.85	1.52		6.62	
Batesburg .....					.15	.30	1.00	.02		.01						.05	.06					.01	.02	1.00		.20		.02	.32				3.23	
Beaufort .....	.07																																	
Blackville .....		T.		.02		.08	1.33							.62	.32			.74	.66			.05		.03		.04				.01	.25	.08	.10	4.33
Calhoun Falls .....					.42	.29				.98						.62	.80	.49				1.25	.43	.68			.42	6.55	.55				13.48	
Camden .....		.03		.01		.28	3.13						T.	.18	.12	1.62		T.	.68			.04	.33	T.	.83	1.75			.07	.36	.01	.01	9.75	
Charleston .....	.19				T.	.04	1.22	T.	T.			T.	T.	.06	T.	.02	1.21	.10			T.	.15	.20	.01	.82	.07	T.	.84	.01	.01			4.95	
Charlotte, N. C. ....		.34			.67	2.78	.08				T.	.12	.34	.76	.09	.13	.11		.09		.30	.06	1.85	.11	.13	.06	1.41	.03	.80		.33		10.66	
Cheraw(1) .....	.11					4.30	2.38	.02						.22	1.00	.61	.11		.10	.40		.16	.13		.82	.42	.10		.96	.41		T.	12.25	
Cheraw(2) .....	.11	.03			T.	4.16	2.37	.02						.15	1.19	.44	.12	T.	.08	.47	.10	.17	.03		.75	.53	.09		.91	.43		T.	12.15	
Clemson College .....		.08		.60		.16				.71				2.05		.73	.29	.36				.13	1.27	1.97	1.23		.88					.11	13.17	
Columbia .....	.07	.04			.06	1.74	1.04	T.				.26	T.			.42	.26		.10	.96	.96		.28	.12			.07	1.10			.28	7.76		
Conway .....	.45	T.					.60	.10	.15						.40		.35		T.	.16	.20		.70	.35	1.60			T.	.30	.13	.10		5.59	
Darlington, near .....					.42	1.70						.26	.81	.02	.22	T.	.26		T.		.11	T.	.36	1.03			.20	.42				T.	5.81	
Edisto .....	.24					.10	1.55		.25	.20								.14			.04	.25				.65		.44		.42	.92		5.20	
Effingham .....	.14						1.10	.06				1.15	.16	.18		.32		.50				T.		.45	1.05	.11						.70	6.72	
Florence .....	.10				.76	1.05	.08					1.03	.12	.10		.19	.02	.28	.13			.10		.71	1.65			.57	.07			9.06		
Gaffney .....					.28	.95					.22	.75		.24	.80	2.21	.75	.05	.08		T.	.05	.03	1.10			1.93	.02	.70	1.30			16.26	
Georgetown .....			.50		.25	.35	.40					.50	.40	.25	.40	.50	1.10	1.15		.50	1.10											7.10		
Gillisonville .....	.24	.04			.10	1.48	.16	T.		.24	T.	.02		.15	.81						.47	.13	2.37		T.		T.	.89	.71	.09		7.00		
Greenville .....					.21	.10					.10	.60		1.60	2.46	1.18	1.10	.52		.17	.09	.45	.32	.33	.12		1.78	.45	1.56	.26	.35	15.04		
Greenwood .....		.05				.40	.22				T.	.15		T.	.05	.67	.62		.45	.20	.10	.50	.58				.65	.42	.80	2.75		8.61		
Horse Cove, N. C. ....			.11		6.00	.51				.28	1.90	.26	2.45	1.29	.25	2.50	1.15	.48	.43	T.	1.07	3.10	.09	T.	.39	.28	1.37	1.82	.13	.48	.09	26.43		
Kingstree(1) .....	.05	.06				T.	.96		.13	T.					T.	.50		.70	.52	.35	.29		.67	.09	.13	.03						.10	4.28	
Kingstree(2) .....	.05	.05				T.	.97		.08	T.					T.	.50		.70	.52	.35	.29		.67	.09	.13	.03						.15	3.85	
Liberty .....		T.	T.	3.00	.25				.02	.03	.53	.35	3.70	.35	.65	.10	T.	.71	1.05	1.03	.72	.33		.66	1.34	.98	.17	.44	1.91			19.32		
Little Mountain .....	.33	T.			.15	1.70	.17			2.00	.16	.25		T.	.05	.67	.62		.24	.03	.05	.07	.55	.93			.34	.75		.60	.25	9.75		
Longshore .....					.63	1.35			.67	.01		.22			.11	.95	.20		.18		.25	.60		.17		2.56	.12	3.71	.01	T.	.34	12.68		
McColl .....					.50	.25	1.40	.16		.04	.18						.50						.20				.19				.19		3.61	
Pinopolis .....					.26	1.30	1.03				.10	2.23	.68	.02	.04	.12	.03				.14	.81	.15	.70	.02		.10	.01	T.			.12	11.21	
Raleigh, N. C. ....	.15					1.98						.15	.10			.10		1.50						.15	1.20		.98	.70	.30	.30		7.61		
St. Georges .....	.43	1.20				1.20							.15				.15	.90					.20	.20						1.05	.02	.10	5.60	
St. Matthews .....						.45	1.12	.46				.21	.32	.56			.23	.95		.25	.15		.32	.05	.15	.98	.92		.06			.18	7.94	
St. Stephens .....	.14	.44				1.01	1.06		.38	1.75		.11	.03	.40	2.28	.60		.31	.01			.53	.81			2.03	.81	.04				.12	12.28	
Santuc .....		.05				.96	.32	1.56	.03					.20	.15	.12	.50	.60	.60		T.		.03	.07	1.24	T.	.56	.04	.01	.36	T.	6.44		
Savannah, Ga. ....	.59					.50	1.00	.15						.20	.15	.12	.50	.60	.60		.50	.20		.20	.10	1.10	.10		.10	1.10		8.47		
Smiths Mills .....	.25	1.00				.14	1.58					.02	.56	.50						.03		.07	.04	1.15			.15	.83		.23	.20	5.50		
Society Hill .....																																		
Spartanburg .....				.10		3.28	.56			.63	.12		3.52	1.49	1.09	.75	.36		.07		.07	.17	.38	.80			.94	.10	.94	.37	.06	15.66		
Statesburg .....	.05					1.24	1.87			.15	.02	.14	.05		.02	.12				.54	.02	T.	.16			.04	.67		.06	.02		5.17		
Summerville .....	.01				.95	1.53	.30		1.82	.02	T.	.31			.05	.52	.45		.13	.06	.04	.03		.05	.12		.15			.24		7.78		
Temperance .....					1.20	.40				.13	.28	.50	T.	.15	.03	1.70	T.	.20	.24	.02	.46	1.40	1.10				T.	.81				.80	9.42	
Trenton .....					.08	2.20									.44		.58	.19	T.			.48						1.30	1.67	T.	1.07		8.01	
Trial .....	.06					.42	.16	T.	.13		T.	.28	.03	.20	.09	.40	.71	.23	.09	.11	.27	T.	.18	.08	.10			.03				.30	3.80	
Walhalla .....			T.			6.40			.21	T.		.85	.50	.65		1.35	.45	T.	.90	.25	1.65	.10	.40		1.00	2.20	.42	.30	T.	T.		17.63		
Wilmington, N. C. ....	1.66					.60	.74	T.			.08	.06	.11	.06	.98	.08	.02	.52			.04	.24	.35	.68			T.	.74				6.82		
Winnboro .....					.76	1.78				.28	.43	1.15			.80	1.15					.40		.16	T.		.20	.05	2.00	T.	T.		9.16		
Winthrop College .....		T.	T.		.12	3.40	.04			.31	.44	.17	.25	.08	1.15	.34		T.	.35				1.60	.64	T.	T.	.87		.21	.05	.07	10.60		
Yemassee .....	.30	.08					.96					.32			.18		.43											.83	.73	.34	.94	5.11		
Yorkville .....		.40	2.00							.14		1.18	1.35	.11	.96	.89		.53				1.27	.25		T.	2.34	.17	.11	.07	1.02	12.75			

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR SEPTEMBER, 1901.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

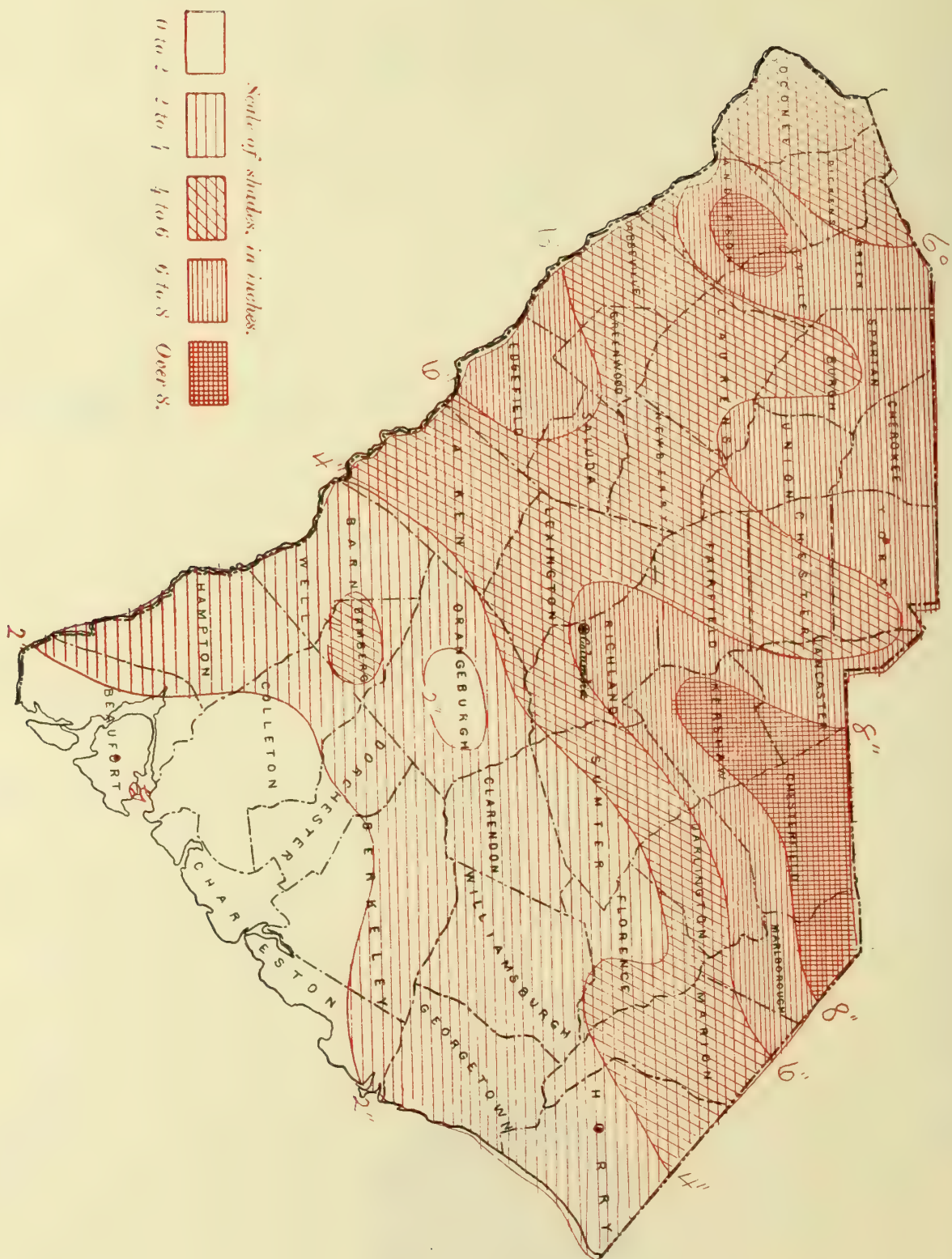
SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



TOTAL PRECIPITATION FOR SEPTEMBER, 1901.





U. S. DEPARTMENT OF AGRICULTURE.

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., SEPTEMBER, 1901. No. 9.

### WEATHER AND CROPS.

The September weather conditions were not uniformly favorable on maturing crops, but were generally so. There was a deficiency in temperature, due to an abnormally cool period from the 18th to the 24th, during which the growth of crops was checked, and in the case of cotton, at a time when warm weather would have been of great value, as that crop is from three weeks to one month later than usual. Aside from the exception noted, the temperature was quite favorable.

In the matter of precipitation, September exhibited the same reversal of ordinary conditions as August did, in being much wetter over the western and northern portions than over the southeastern. Practically all, except a small portion, of the month's rainfall fell from the 16th to the 18th, during which period excessive amounts were recorded over all save about one-third of the State, the exception comprising the southeastern counties where the entire month's rainfall was deficient. In Charleston and Beaufort counties less than half an inch fell. This locality was dry during August, and the final result at the close of September was a drought of great severity, that was injurious to truck crops. Much seed that was planted in August rotted in the ground or failed to germinate, and many of the young sprouts that did come up died for lack of moisture. Sea-island cotton was also injuriously affected, as young bolls shriveled on the stalks.

Corn was generally gathered, but, as previously estimated, the yields were very poor. Rice harvest was nearly finished, but was interrupted by freshets in the rivers, which in connection with abnormally high tides on the 6-7th, and from the 24th to the 28th flooded rice fields in some sections; the yields were generally good, although in the Georgetown districts they were very unsatisfactory. Much hay was gathered in fine condition, as the average of 15 clear days gave the needed sunshine for curing the grass and pea-vines. Over the western and northern portions it was too wet for sweet potatoes, but was very favorable for peas.

Cotton opened rapidly during the first half of the month, and slowly thereafter, while its condition deteriorated throughout the entire month, owing to rust and shedding, induced by too much rain and the cool weather. In this connection it is

also probable that the bad effects of the wet weather during August manifested themselves during the month under review. The early, or bottom crop was poor, the middle crop heavy, while the prospects for a top crop are unfavorable. Pickers were plentiful, and the lint was gathered nearly as fast as the bolls opened.

September as a whole was favorable for gathering and harvesting, but was unfavorable for growing crops. The soil was in excellent condition for seeding oats and rye, and for plowing lands for wheat.

### CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for September, 1901, was 73.1°, which is 1.1° below the normal. The highest local mean was 77.8° at Beaufort, the lowest 67.6° at Greenville. The highest temperature was 98° at Gillisonville on the 14th, the lowest 46° at Santuc and Walhalla on the 22d and 19th, respectively, making the State range 52°. The greatest local monthly range was 50° at Seivern, the least 30° at Charleston. The mean of the daily maximum temperatures was 82.5°, and of the daily minimum temperatures was 63.7°.

Precipitation, in Inches.

The average precipitation was 4.52 inches, which is 0.25 above the normal. The precipitation was excessive over the northern portions and deficient over the southeastern. The greatest local amount was 8.40 at Cheraw (1), the least 0.30 at Bowman. The greatest 24-hourly fall was 6.17 at Society Hill on the 17-18th. The average number of days with .01, or more, of precipitation was 6, ranging from 1 at Bowman to 9 at Camden and St. Stephens.

Excessive Precipitation.—Anderson, 16-17th, 7.00 in 36 hours; Barksdale, 16-17th, 3.89 in 24 hours; Calhoun Falls, 18th, 2.80 in 24 hours; Camden, 17-18th, 5.02 in 24 hours; Cheraw (1), 18th, 3.40 in 24 hours; Cheraw (2), 17-18th, 3.34 in 24 hours; Clemson College, 17-18th, 2.55 in 24 hours; Columbia, 17-18th, 3.72 in 21 hours and 45 minutes; Darlington, 16-17th, 3.05 in 24 hours; Due West, 16-17th, 3.65 in 24 hours; Greenville, 17-18th, 3.65 in 24 hours; Greenwood, 17-18th, 2.95 in 24 hours; Liberty, 16-17th, 3.26 in 24 hours; Little Mountain, 17-18th, 3.58 in 23 hours; Santuc, 16-17th, 3.03 in 24 hours; Seivern, 17-18th, 5.71 in 24 hours; Society Hill, 17-18th, 6.17 in 24 hours; Trenton, 17-18th, 4.75 in 24 hours; Walhalla, 16-17th, 3.33 in 24 hours; Winnsboro, 16-17th, 2.80 in 24 hours; Yorkville, 16-17th, 4.40 in 24 hours.

Weather.—The average number of clears days was 15, partly cloudy 8, and cloudy 7.

Winds.—The prevailing direction of the wind was from the northeast at 26 stations, from the north at 5, from the south at 4, from the east, southwest and west at 2 each, and from the southeast and northwest at 1 each.

High Winds.—Barksdale 26, Beaufort 17, Blackville, Gillisonville 18, Charleston 26-27, Columbia 16-17-18-27, Con-



way 27, Liberty 15-16-27, Little Mountain 16, Longshore 18-26-27, Walhalla 25-26-27.

#### ERRATA.

July report, page 6: Cheraw (1), mean minimum temperature,  $73.6^{\circ}$ , should be  $71.6^{\circ}$ ; page 5: mean temperature,  $81.4^{\circ}$ , should be  $80.4^{\circ}$ .

August report, page 5: Batesburg, minimum temperature,  $67^{\circ}$  on the 25-31st, should be  $66^{\circ}$  on the 2-3d. Page 6: Clemson College, mean maximum temperature,  $82.5^{\circ}$ , should be  $85.3$ , and on page 5, mean temperature,  $74.6^{\circ}$ , should be  $76.0^{\circ}$ . Page 5: Florence, mean temperature,  $80.7^{\circ}$ , should be  $80.6^{\circ}$ .

#### MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston, 7, 8, 16.

Lunar Halos.—Blackville, Charleston, 26; Gillisonville, 23, 24, 25, 26; Statesburg, 28.

Thunderstorms.—Beaufort, 1, 2, 16, 17; Blackville, 12, 15, 16; Bowman, Due West, Little Mountain, Santuc, Yorkville, 16; Camden, 17, 18; Charleston, 2, 3; Cheraw (2), 1, 16, 17, 28; Columbia, 16, 17; Gillisonville, 1, 3, 14, 16; Liberty, 10, 12, 16, 17; Longshore, 16, 17, 29; Society Hill, 17; Statesburg, 15, 16, 17, 18; Trenton, 9, 16, 17; Trial, 14.

Fogs, Dense.—Beaufort, Seivern, 30; Blackville, 11, 17; Bowman, 8; Camden, 8, 10, 11; Charleston, 10, 30; Clemson College, 12; Conway, Edisto, 11; Effingham, 16; Gillisonville, 3, 11, 12, 30; Liberty, 1, 11, 29; Little Mountain, 28; St. Stephens, Society Hill, 10; Santuc, 1, 10; Statesburg, 1, 10, 28, 30; Trial, 9, 10; Walhalla, 15; Yorkville, 1, 10, 13.

#### REMARKS BY OBSERVERS.

Batesburg.—The month was exceptionally fine for gathering crops. Cotton opened rapidly, and half the crop is already open. There were a few cool days.—E. J. Hite.

Society Hill.—The weather during the month has been favorable for harvesting cotton and hay, save the excessive rainfall on the 17-18th which was damaging to both crops.—Maj. J. J. Lucas.

Anderson.—The last week was fair for picking cotton, that was then opening fast; all cotton is three or four weeks late. Minor crops are doing well. No corn has been gathered at close of month.—R. B. Dean.

Barksdale.—The special feature of the month was the variability of the temperature. Dews were heavy and the rainfall abundant. Cotton is late, and only a few bales have been picked. Much hay was cut.—E. E. Putnam.

Gillisonville.—Month cool and dry. After the first few days, cotton failed rapidly. Peas and sugar cane improved.

A splendid crop of hay was secured in fine condition. Gardens were injured at close of month.—Sam P. Saltus.

Beaufort.—The mean temperature was  $0.2^{\circ}$  above the normal; the rainfall 5.58 inches below. The long continued drought is causing bolls on late cotton to shrivel, and is seriously injuring turnips, fall gardens and pastures.—S. M. Benton.

Liberty.—The weather was fairly favorable during the month for saving hay and fodder. The hay crop, both grass and pea-vines, was unusually fine and the quantity saved was larger than usual, while there is still much to harvest.—Jno. T. Boggs.

Santuc.—The month was unfavorable for outdoor work. One thunderstorm for the month, on the 16th. From the afternoon of the 16th to the 18th, a period of 48 hours, 5.45 inches of rain fell. Streams were much swollen.—E. W. Jeter.

Trenton.—Cotton is below an average crop in condition. Heavy rains from the 16th to the 18th damaged open cotton, and hay. Corn and sweet potatoes are poor; peas are fair. Precipitation was 2.60 more than the 9-year average for September, and 7.90 more than the 8-year average for the first 9 months of the year.—C. A. Long.

Summerville.—Northeast winds prevailed on 17 days. The deficiency of rainfall for the month was 2.97 inches. There were six earthquake vibrations, two decided ones, and one almost imperceptible the record of which is not given; they occurred as follows: 8th, 1.38 a. m.; 14th, 8.26 a. m.; 16th, 12.06 p. m.; 17th, 8.35 a. m.; and a very slight one on the 28th, 8.25 p. m.—Prof. Jno. Gadsden.

#### EDITORIAL NOTE

Attention is directed to the first reports from the newly established voluntary observing stations at Barksdale, Laurens county; Bowman, Orangeburg county; Conway, Horry county; Due West, Abbeville county; Gaffney, Cherokee county, and Seivern, Aiken county. The number of stations will be still further increased as there are a number of counties that as yet have no stations.

The season is close at hand for the occurrence of frost, and as the dates of the first light, heavy, or killing frost in the fall of the year are among the most valuable, and most often called for data that are recorded by voluntary observers, they are reminded of the importance of a record of such data. After the occurrence of the first killing frost, no frost need be recorded until March 1st, although there can be no objection to your doing so, except along the immediate coast where on some years no frosts occur after January. As this comprises the early truck raising regions, a record of all frosts that occur is valuable.



## CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1901.

STATIONS.	Counties.	Elevation feet.	Length of record— years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky				Observer.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		Prevailing direction of wind.
Allendale	Barnwell	186	13	76.8	+1.8	94	*13	55	21	30	2.17	-2.11	1.25		4	18	5	7		B. F. Wilson.
Anderson	Anderson	892	0	72.3	+0.1	93	8	51	*20	27	8.30	+4.75	4.50		4	18	8	4	ne.	R. B. Dean.
Augusta, Ga.	Richmond	134	30	74.4	1.0	92	13	56	21	25	5.03	+1.27	4.20		6	16	8	6	ne.	Weather Bureau.
Barksdale	Laurens			70.4		90	14	50	*21	23	6.06		3.89		5	20	6	4	se.	E. E. Putnam.
Batesburg	Lexington	656	13	72.5	-1.3	96	13	51	*22	27	5.49	+1.38	2.15		7	13	13	4	ne.	E. J. Hite.
Beaufort	Beaufort	28	15	77.8	+0.9	94	13	50	19	24	0.44	-5.67	0.30		5	12	10	8	se.	S. M. Benton.
Bennettsville	Marlboro																			R. T. Barfield.
Blackville	Barnwell	293	13	75.7	+0.8	97	15	52	21	34	2.32	-2.01	1.27		6	15	13	2	ne.	G. D. C. Lange.
Bowman	Orangeburg			76.1		96	14	55	23	31	0.30		0.30		1	22	0	8	ne.	B. O. Evans.
Calhoun Falls	Abbeville	354	8								5.16	+1.08	2.80		4	22	0	8	ne.	P. J. Pfeiffer.
Camden	Kershaw	222	35								8.24	+4.40	5.02		9	12	7	11	ne.	B. Ammons.
Charleston	Charleston	48	32	77.2	+1.0	91	8	61	19	22	0.40	-5.28	0.11		8	9	14	7	se.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	23	70.2	-2.0	88	15	50	19	22	6.43	+3.21	1.93		7	16	5	9	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	114	13	72.2	-1.0	93	16	50	21	24	8.40	+4.77	3.40		7	12	6	12	n.	W. R. Godfrey.
Cheraw (2)		108	8								7.28	+3.10	3.34		7	14	8	8	ne.	Jno. H. Powe.
Clemson College (a)	Oconee	850	10	70.2		91	8	49	*19	30	6.83	+2.77	2.55		5	9	17	4	ne.	Prof. C. C. Newman.
Columbia	Richland	351	14	73.6	-1.4	92	14	53	21	26	6.13	+2.01	3.72		6	16	9	5	ne.	Central Office.
Conway	Horry	49	10	75.8		95	14	54	22	28	3.50	-0.94	1.80		6	16	1	13	sw.	P. Quattlebaum.
Darlington	Darlington	175	6	74.8		96	8	52	22	33	4.76		3.05		6	22	1	7		E. R. McIver.
Due West	Abbeville			71.5		90	15	53	*19	22	5.59		3.65		5	20	6	4	w.	Rev. O. Y. Bonner.
Edisto	Bamberg	143	8								4.48	+0.87	2.12		5	13	6	11	ne.	Miss Jerry Carter.
Efingham	Florence	106	9								4.90	+1.30	2.05		4	14	6	10	ne.	A. J. Howard.
Florence	Florence	156	13	73.8	-0.9	93	15	54	21	25	3.88	+0.06	2.20		7	16	5	9		H. K. Gilbert.
Gaffney	Cherokee	5	5	70.6		92	17	48	*21	27	8.01		2.10		8				ne.	B. F. Camp.
Georgetown	Georgetown	12	8																	W. T. Turbeville.
Gillisonville	Hampton		6	76.0	+0.3	98	14	57	*21	34	2.37	-0.53	0.89		5	14	8	8	se.	San P. Saltus.
Greenville	Greenville	1,000	9	67.6	-3.9	86	*9	47	20	26	7.35	+3.42	3.50		8	19	4	7	w.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	13	70.6	-2.8	91	17	48	21	27	5.92	+1.19	2.95		5	17	1	12	w.	M. M. Calhoun.
Horse Cove, N. C.	Macon	3,800	9																	B. C. Hawkins.
Kingstree (1)	Williamsburg	77	13	72.8	-2.6	92	15	52	21	26	2.21	-3.23	1.36		7	15	7	8	ne.	C. J. Lesesne.
Kingstree (2)		77	7								2.30	-1.35	1.41		7	16	6	8	ne.	W. H. Matthews.
Liberty (a)	Pickens	7	7	70.2	-2.7	90	16	49	*19	28	5.64	-0.36	3.26		7	17	6	7	ne.	Jno. T. Boggs.
Little Mountain	Newberry	711	8	73.0	-3.0	94	*13	50	22	27	4.35	+1.16	3.58		4	18	9	3	ne.	John M. Sease, M. D.
Longshore	Newberry	530	8	72.2	-1.5	95	*13	51	*20	30	4.48	+0.68	1.95		6	14	8	8	ne.	W. G. Peterson.
Lugaz	Kershaw																			W. J. Burdell, M. D.
Pinopolis	Berkeley		8	73.9	-0.2	90	14	57	22	19	2.78	-1.32	1.70		6	10	10	10	nw.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	15	71.4	-1.0	92	13	50	21	24	8.26	+4.82	2.91		8	14	10	6	n.	Weather Bureau.
St. Georges	Dorchester	109	13	73.8	-1.0	93	14	50	21	26	2.16	-3.20	1.93		4	15	7	8		W. B. Rayson.
St. Matthews	Orangeburg	254	13	74.4	-0.5	95	14	54	23	28	4.07	+0.19	1.50		6	16	5	9		J. S. Warramaker.
St. Stephens	Berkeley	73	9								3.70	-0.06	2.37		9	13	6	11	n.	C. T. Shuler.
Saluda	Saluda																			W. A. Edwards, Jr.
Santee	Union	512	8	71.0	-2.0	93	*13	46	22	30	6.34	+3.00	3.03		7	14	12	4	ne.	E. W. Jeter.
Savannah, Ga.	Chatham	71	32	76.8	+1.0	94	13	59	21	20	2.13	-3.60	0.90		9	13	10	7	ne.	Weather Bureau.
Severn	Aiken			74.3		98	15	48	22	36	5.99		5.71		3	9	15	6	ne.	J. F. Lyles.
Smiths Mills	Williamsburg	62	6								3.95		1.40		8	15	5	10	n.	H. van Keuren.
Society Hill	Darlington	192	10	73.0	+0.1	91	*13	51	26	23	7.46	+3.21	6.17		7	21	4	5	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	10	70.4	-2.2	92	17	47	21	26	5.81	+1.53	2.14		8	11	10	9		F. P. Robinson.
Statesburg	Sumter	500	21	74.0	+0.7	93	14	52	21	26	3.36	+0.05	2.24		8	14	8	8	e.	W. W. Anderson, M. D.
Summerville	Dorchester		4	74.2	-0.8	91	*13	56	20	21	0.91	-2.97	0.54		5	19	7	4	ne.	Prof. Jno. Gadsden.
Sumter	Sumter																			Prof. W. A. Buckner.
Temperance	Marion	100	3	75.0		95	*13	51	20	34	4.81		1.65		5	17	7	6	ne.	J. R. Reeves.
Trenton	Edgefield	620	8	73.8	-3.4	90	*15	54	19	18	7.25	+3.47	4.75		6	12	15	3	s.	C. A. Long.
Trial	Berkeley		15	72.4		93	14	53	*21	30	2.57	-1.45	1.51		6	10	11	9	ne.	Etsell Gaillard.
Walhalla	Oconee	1,061	11	68.2	-2.3	87	15	46	19	25	4.22	1.51	3.33		8	17	8	5	sw.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	32	74.5	+0.5	92	13	55	22	24	5.38	-0.25	2.12		8	7	13	10	ne.	Weather Bureau.
Windsor	Aiken																			B. B. Hightower.
Winnsboro	Fairfield	545	12	72.6	-0.3	93	*13	52	*19	24	4.35	+0.10	2.80		2	22	6	2	ne.	John W. Seigler.
Winthrop College	York	690	2	71.2		91	15	47	21	25	4.75		2.05		6	18	10	2	s.	Geo. B. Green.
Yemassee	Beaufort	23	6	76.0	-0.4	95	14	56	21	28	1.36		0.83		5	17	5	8		R. G. Smith.
Yorkville	York	680	13	71.6	-1.4	91	*15	50	19	23	6.81	+2.60	4.40		6	13	12	5	e.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				73.1	-1.1	98	14	46	*19	36	4.66	+0.25	6.17		6	15	8	7	ne.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

† Mean from 7 a. m., and 9 and 2 p. m. observations.



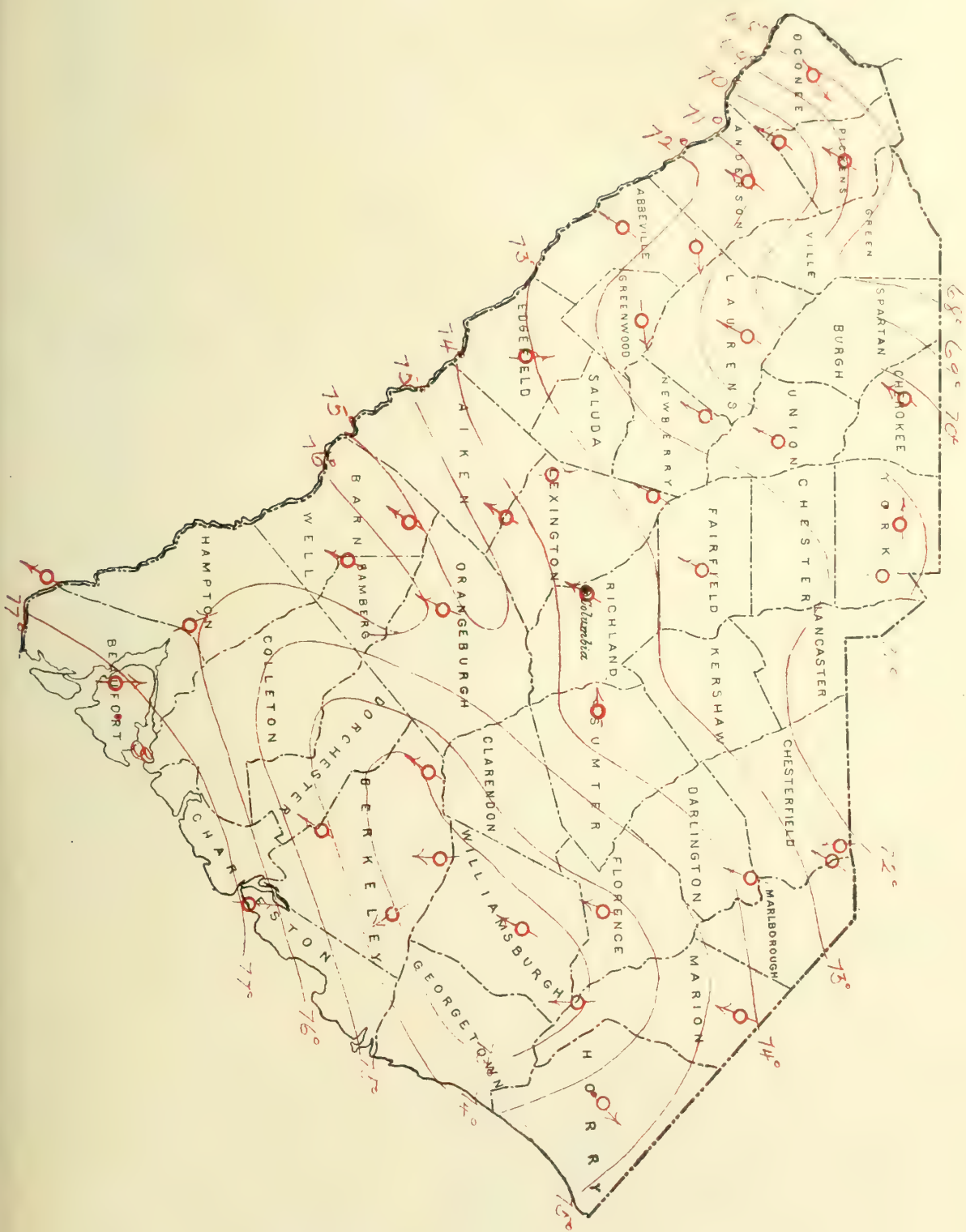
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING SEPTEMBER, 1901.

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MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR SEPTEMBER, 1901.

(Arrows fly with the wind.)





## DAILY PRECIPITATION FOR SOUTH CAROLINA, SEPTEMBER, 1901.

STATIONS.	Day of Month.																															Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Allendale																	1.25	.45	.10													2.17		
Anderson												.20	T.	T.		2.50	4.50	1.10									T.	T.				8.30		
Augusta, Ga.	.22											.10				3.40	.49	1.87										T.	T.	.02	.17	T.	5.03	
Barksdale													.02				.15	2.15	1.90										T.	.02	.20		6.06	
Batesburg	1.20																.01	.02												.06	.05	.05	5.49	
Beaufort		.30																															0.40	
Bennettsville																																		
Blackville													.08				.11	1.27	.79	.02										.05	T.		2.32	
Bowman																.30											T.	T.	T.				0.30	
Calhoun Falls																	2.01	2.80	.11												.24		5.16	
Camden	.15					T.								.05		.02	1.34	5.02	1.57											.06	.01	.02	8.24	
Charleston		.06	.03	T.										.11		.02	.08												.01	.04	.05		0.40	
Charlotte, N. C.	.01			T.								.28		T.		1.48	1.93	1.73											T.	.98		.02	6.43	
Cheraw(1)	1.13					T.										T.	1.54	3.40	1.60											.68	.01	.04	8.40	
Cheraw(2)	1.23					T.										.04	.41	3.34	1.48											.71	T.	.07	7.28	
Clemson College										.20		.58					2.42	2.55												.71	T.	.08	6.83	
Columbia	.07														T.	.92	1.39	3.72										T.	.01	.02		6.13		
Conway						.10					.35			.20				.35	.70											1.80			3.50	
Darlington, near															.05	.05	3.05	1.10	.07										.42	T.			4.74	
Due West																1.01	2.64	1.72											.06	.16			5.59	
Edisto					T.												.72	2.12	.90	.70										.04			4.48	
Effingham					.05													2.00	2.05											.85			4.90	
Florence	.02													T.		.09	.03	.85	2.20	.08										.61			3.88	
Gaffney	2.09												.23		.03		2.10	1.61	.40											.30	1.25		8.01	
Georgetown																																		
Gillisonville		.69	T.		.07									T.		.89	.69													.03			2.37	
Greenville	1.15								.08	.04		.23					2.21	3.50	.02												.12		7.35	
Greenwood	.62																.75	2.95	.80											T.	.80		5.92	
Horse Cove, N. C.																																		
Kingstree(1)		.02	.26						.22	.11								.12	1.36											.12			2.21	
Kingstree(2)			.02	.24					.23	.10								.15	1.41											.15			2.30	
Liberty			T.	.22					.35							.30	3.26	.45												.66			5.64	
Little Mountain													T.			.07	.58	3.58													T.	.12	4.35	
Longshore																1.07	1.95	1.16											.02	.01	.27		4.48	
Lugoff																																		
Pinopolis					.13										.10	.15	1.70	.58															2.78	
Raleigh, N. C.	.01													.11	.03	.89	1.02	2.91												.01			8.26	
St. Georges					.20													1.93	.02	T.											.01		2.16	
St. Matthews				T.												1.08	1.20	1.50	.02	.25											.02		4.07	
St. Stephens		.07	.06										.05		.90		.12	2.37	.05											.05	.03		3.70	
Saluda																																		
Santuc	.27											.07				1.34	1.69	2.42												.24	.31		6.34	
Savannah, Ga.		.21		.02	T.	T.						T.				.01	.90	.08	T.											.51	.09	.30	.01	2.13
Seivern														T.		.28	5.71													T.	T.		5.99	
Smiths Mills	.20				.40											.30		.95	1.40											.40	.10	.20	3.95	
Society Hill												.16				.12	5.07	1.10	.01											.81		.19	7.46	
Spartanburg	.12											.31			.05		2.23	2.14	.32											.06	.58		5.81	
Statesburg													.08	.05	.07	.65	2.44													.04	.02	.01	3.36	
Summerville		.17	T.	T.												.04	.54	.07												.09		T.		0.91
Sumter																																		
Temperance														T.			1.49	1.32															4.81	
Trenton	.58															.21	.07	4.75												T.	.24	1.40	7.25	
Trial		.07		.06													1.54	.54	.33											.03			2.57	
Walhalla			T.							.42	.15				.10		3.30													.15	.10		4.22	
Wilmington, N. C.	.71				T.	T.			.04								26	1.76		.22			T.							.04	2.12	.23	T.	5.38
Windsor																																		
Winnsboro																	2.80	1.55												T.	T.	T.	4.35	
Winthrop College	.12										.02					.31	1.78	2.05												T.	.40		4.75	
Yemassee		.21		.04												.23		.83													.05			1.36
Yorkville											.32					4.15	1.25	1.71												T.	.34	.04	6.81	

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR OCTOBER, 1901.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

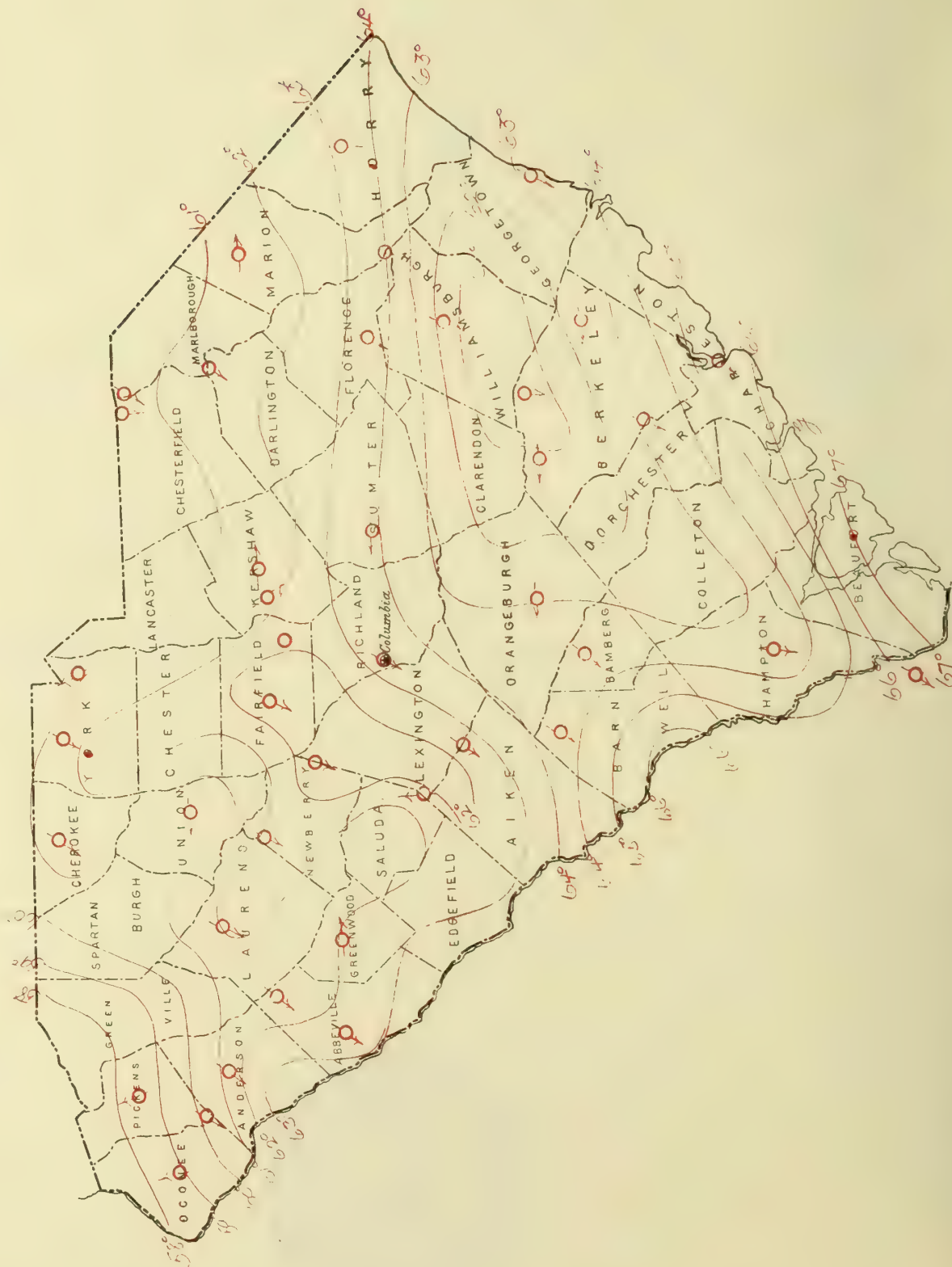


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR OCTOBER, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., OCTOBER, 1901. No. 10.

## WEATHER AND CROPS.

Although October usually has a larger percentage of sunshine than any other month, the current month was exceptional in this respect, having had an average of but three cloudy days; and also for the small amount of precipitation—every station reporting a deficiency—and the evenness of its distribution. There was a large, wedge-shaped area in the west-central portion of the State, with its base resting on the Savannah river, and reaching to the North Carolina border, that had slightly more than an inch of rainfall; another small area covering parts of Bamberg and Orangeburg counties, another very small area covering portions of Dorchester and Berkeley counties, and a considerable area centering on Smiths Mills, had over an inch of rainfall, while the rest of the State had less than an inch. Practically all of the precipitation occurred on the 1-2nd, and 13-14th. Along the immediate coast, the pre-existing drought increased in severity, to the injury, and almost ruination, of fall truck crops.

The temperature range for the month was between a maximum of 92° and a minimum 29°. The daily range was greater than usual, or expressed differently, the days were warm and the nights cool. There were two frost periods. The first from the 3rd to the 6th, during which light frosts occurred in the extreme western and northern portions only; the second from the 15th to the 19th, gave light frosts over the entire State. Heavy to killing frosts occurred on the 19th over the south central and eastern counties. Except where killing frost occurred, the injury by frost was confined principally to killing sweet potato vines, but the frost stopped further growth of cotton after the 19th, although nearly full-grown bolls were not injured.

The month was favorable for outdoor work, and rapid progress was made in gathering crops. The corn crop confirmed the previous estimate of very poor yields. Rice harvest was finished, and owing to the fine weather the yields were larger than anticipated. The October hay crop was the largest in many years, and it was saved in prime condition. Cotton picking made good progress and was nearly finished over the eastern counties, but, owing to the lateness of the plants, over the western counties picking was not nearly finished at the

close of the month. Bolls opened slowly in those sections, early in the month, but the unusually favorable weather undoubtedly helped late cotton to come to maturity and materially increased the yields.

The ground was in fairly good condition for plowing, over the western counties, during the first half of the month, and for seeding oats, but the latter half was too dry for this work over the whole State, and oats sown after the 15th came up to poor stands. No wheat was sown, but considerable land was prepared for wheat.

## ERRATA

September Monthly Report, on page 5, the maximum temperature at Barksdale, 90° on the 14th, should be 91° on the 15th. On pages 5 and 8, Effingham, total precipitation 4.90, should be 4.95; Winthrop College, total precipitation 4.75, should be 4.73. On page 5, the name of the station, Lugog should be Lugoff.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for October, 1901, was 62.4°, which is 1.6° below the normal. The highest local mean was 67.8° at Beaufort, the lowest 58.0° at Greenville and Walhalla. The highest temperature was 92° at Seivern on the 1st, the lowest 29° at Seivern on the 19th, making the State range 63°. This was also the greatest local range. The least local range was 34° at Charleston. The mean of the daily maximum temperatures was 74.9°, of the daily minimum temperatures was 50.0°, making an average daily range of 24.9°.

Ice, first of season.—Seivern on the 19th.

Frost, first light of the season.—On the 3d, Clemson College; on the 4th, Darlington, Gaffney, Inman, Leslie, Middle Saluda, Rock Hill, Santuc, and Spartanburg; on the 5th, Baker, Camden, Fairfax, Longshore, and Newberry; on the 6th, Chesterfield, Greenville, and Lugoff; on the 15th, Abbeville, Anderson, Liberty, and Spencer; on the 16th, Bowman, Conway, Gillisonville, Seivern, Statesburg, Temperance, and Trenton; on the 18th, Cheraw, Edisto, Effingham, Little Mountain, St. Stephens, and Smiths Mills; on the 19th, Beaufort, Blackville, Columbia, Kingstree, St. George, St. Matthews, Sharpe, Society Hill, Winthrop College, and Yemassee.

Frost, first heavy of season.—On the 15th, Gaffney; on the 19th, Camden, Cheraw, Conway, Edisto, Effingham, St. Stephens, Santuc, and Smiths Mills; on the 20th, Longshore.

Frost, first killing of the season.—On the 19th, Bowman, Denmark, Lugoff, Samaria, Seivern, Trial, and Windsor; on the 20th, Gillisonville.

## Precipitation, in Inches.

The average precipitation was 0.89 of an inch, which is 2.33 below normal. The deficiency extended over the entire State, but drought conditions are most severe along the immediate coast. The greatest local amount was 2.86 Trenton, the least "T" at Georgetown. The greatest 24-hourly fall was 2.10 at



Smiths Mills on the 13-14th. The average number of days with .01, or more, of precipitation was 3, ranging from 0 at Georgetown to 7 at Charleston.

Weather.—The average number of clear days was 22, of partly cloudy 6, and of cloudy ones 3.

Winds.—The prevailing direction of the wind was from the northeast at 25 stations, from the north at 6, from the east at 5, from the west at 3, and from the south and northwest at 2 each.

High Winds.—Barksdale 25-29th; Charleston 7th; Liberty 18-19-29th-30-31st; Walhalla 1-17-30.

#### MISCELLANEOUS PHENOMENA (with dates).

Earthquake.—Longshore, 1st, 11.40 a. m.

Solar Halos.—Charleston, 13, 14, 20.

Lunar Halos.—Columbia, 19; Greenville, 26.

Fogs, dense.—Bowman, St. Stephens, 12; Charleston, 1, 3, 28; Cheraw, 2; Little Mountain, 30; Statesburg, 2, 12.

Thunderstorms.—Barksdale, Santuc, Yorkville, 2; Beaufort, 1, 2, 13; Blackville, Bowman, Gillisonville, Liberty, 1, 2; Charleston, 1, 13; Columbia, Statesburg, Trenton, 1; Greenville, 1, 12; Longshore, 12; Seivern, 2, 12.

#### REMARKS BY OBSERVERS.

Yorkville.—Some light frosts were reported in the neighborhood, but none were seen at this place.—J. R. Schorb.

Walhalla.—The smallest rainfall for any month on record since 1896, except for December, 1896, that had the same amount—0.55 of an inch.—S. M. Pagan.

Trenton.—Precipitation 0.96 less than the 9-year average for October, and 7.24 inches more than the 8-year average for the first 10 months of the year.—U. A. Long.

Batesburg.—The month has been very warm, and much more cotton has been made than was expected on the first of the month, on account of the fine weather.—E. J. Hite.

Society Hill.—Light frost on the morning of the 19th killed sweet-potato vines. The hay crop—pea vines and crab grass—is unprecedentedly large; all other crops short.—Maj. J. J. Lucas.

Lugoff. Cotton and corn were gathered. More hay housed this month than there has been for years, in this section. Very dry and dusty. Crops giving poor yields.—W. J. Burdell, M. D.

Barksdale.—The month was an exceedingly dry one, and gave beautiful weather for gathering crops. Most of the cotton has been picked. Corn and peas are good this year.—E. E. Putnam.

Summerville.—Deficiency in rainfall for the month 4.94; deficiency since August 1st 10.03 inches. General direction of the wind was northeast. Mean relative humidity 77.4 per cent.—Prof. Jno. Gadsden.

Santuc.—There were no general killing frosts, but in small areas vegetation was killed; there were several light frosts. The month was mostly clear and dry, excellent for farmwork. Much oats was sown.—E. W. Jeter.

Little Mountain.—Time of daily observations is 8 p. m. The month was very favorable for sowing oats, and stands are fine. The corn crop is housed, the smallest yield ever gathered in this section.—Jno. M. Sease, M. D.

Liberty.—Fine weather for saving hay, and all matured crops. Much late cotton in this section has opened very slowly, and yield is light; no top crop. Wheat being sowed. Fall oats look well where sown early.—John T. Boggs.

Anderson.—This has been a month of fine weather for gathering crops. The finest October weather ever known for cotton to open, yet the general complaint is that cotton is not opening well. The ground is dry and hard.—R. B. Dean.

Beaufort.—Excess in temperature for October is 232°. Accumulated deficiency in temperature since January 1st 362°. Deficiency in rainfall for October 2.80; deficiency since July 1st 13.58; deficiency since January 1st, 7.34 inches.—S. M. Benton.

Bowman.—Weather was unusually favorable for gathering crops, especially hay of which a large quantity has been housed. Some late cotton still to open. Potato vines, and all other tender vegetation killed by frost on the 19th.—B. O. Evans.

Gillisonville.—Month cool and dry, with killing frost on the 20th. Weather favorable for harvesting. Corn yield is less than half a crop. An unusually large crop of peas. An abundance of pea-vine and common grass secured as hay in excellent condition. Cotton backward. Too dry for gardens.—Sam P. Saltus.

Statesburg.—Deficiency of moisture has had a very disastrous effect on the cotton crop in retarding the late growth, and preventing the fruit from attaining a full maturity. The light frosts of the 16-19th nipped sweet-potato vines and other tender vegetation on low ground, but on hill tops and on undulating land tender vegetation was not injured. A few robins were seen on the 22d.—W. W. Anderson, M. D.



## CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER, 1901.

STATIONS	Counties	Elevation, feet.	Length of record, years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky				Observer.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (melted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		Prevailing direction of wind.
Allendale	Barnwell	186	13	66.1	+1.9	87	1	39	19	35	0.62	1.88	0.62		2	21	5	3	B. F. Wilson.	
Anderson	Anderson	764	0	64.2	+3.8	87	21	40	15	37	0.98	1.96	0.53		2	26	5	0	R. B. Dean.	
Augusta, Ga.	Richmond	134	30	63.2	-1.0	86	1	39	19	36	1.61	0.89	1.12		4	24	4	3	Weather Bureau.	
Barksdale	Laurens	780	13	62.4		83	*1	38	26	35	0.77	0.40	0.40		2	22	8	1	E. E. Putnam.	
Batesburg	Lexington	656	13	62.2	-0.7	85	1	43	*16	31	1.50	-1.78	1.00		3	26	4	1	E. J. Hite.	
Beaufort	Beaufort	28	15	67.8	+0.1	86	*11	43	19	38	0.50	3.14	0.19		5	19	7	5	S. M. Benton.	
Bennettsville	Marlboro																		R. T. Barfield.	
Blackville	Barnwell	296	13	64.0	-0.2	90	1	35	19	43	0.78	2.44	0.48		4	20	11	0	G. D. C. Lange.	
Blackman	Orangeburg	160		63.2		89	1	33	19	44	1.32		0.70		4	22	8	1	B. O. Evans.	
Calhoun Falls	Abbeville	508	8								1.14	-2.67	0.98		3	28	2	1	P. J. Pfeiffer.	
Camden	Kershaw	222	35								0.44	-2.24	0.27		4	22	2	5	B. Ammons.	
Charleston	Charleston	48	32	66.8	0	84	23	50	19	28	0.86	-3.18	0.52		7	15	10	6	Weather Bureau.	
Charlotte, N. C.	Mecklenburg	808	23	61.0	0	84	1	38	26	30	1.04	-2.32	1.02		2	24	6	1	Weather Bureau.	
Cheraw (1)	Chesterfield	144	13	60.8	-0.4	84	2	34	19	36	0.18	-2.57	0.14		3	19	4	8	W. R. Godfrey.	
Cheraw (2)		144	8								0.25	-2.80	0.17		3	22	4	5	Jno. H. Powe.	
Clemson College	Oconee	850	10	60.3	-2.8	86	*1	34	14	46	0.30	-2.80	0.30		1	24	7	0	Prof. C. C. Newman.	
Columbia	Richland	351	14	63.2	-0.2	86	1	38	19	34	0.47	-1.92	0.32		5	19	9	3	Central Office.	
Conway	Horry	25	10	64.0		87	2	35	19	46	1.10	-1.49	0.80		2	15	1	15	P. Quattlebaum.	
Darlington	Darlington	175	6	62.9		89	24	33	18	44	0.33	-2.67	0.17		4	24	6	1	E. R. McIver.	
Due West	Abbeville	740	8	61.4		82	1	41	19	29	0.73		0.40		2	27	3	1	Rev. O. Y. Bonner.	
Edisto	Bamberg	127	8								1.30	-1.69	0.72		3	20	7	4	Miss Jerry Carter.	
Eltham	Florence	106	9								1.42	-1.25	0.60		5	22	4	5	A. J. Howard.	
Florence	Florence	136	13	62.0	-1.2	85	*1	38	19	33	0.88	-2.03	0.70		3	22	0	9	H. K. Gilbert.	
Gaffney	Cherokee	893	5	61.2		86	*1	34	19	40	1.02	-1.92	0.98		2				B. F. Camp.	
Georgetown	Georgetown	12	8	63.4	-1.8	83	24	43	19	30	T.	-3.29	T.		0	31	0	0	W. T. Turbeville.	
Hamptonville (A)	Hampton	50	6	63.0	-3.3	89	1	32	19	48	0.71	-3.09	0.33		4	18	6	6	Sam P. Sattus.	
Greenville	Greenville	989	9	58.2	-2.7	81	1	36	19	36	0.82	-1.95	0.67		2	29	1	1	Mrs. S. A. Crittenden.	
Greenwood	Greenwood	671	13	62.5	+0.2	86	24	37	19	38	1.22	-1.56	0.64		3	26	0	5	M. M. Calhoun.	
Horse Cove, N. C.	Macon	3,800	9																B. C. Hawkins.	
Kingstree (1)	Williamsburg	54	13	60.8	-0.4	83	13	36	19	33	0.85	-1.43	0.48		4	21	5	5	C. J. Lesesne.	
Kingstree (2)		54	7								1.21	-1.45	0.56		4	22	2	7	W. H. Matthews.	
Liberty	Pickens	900	7	58.8	-1.2	85	1	35	15	39	0.69	-2.97	0.45		2	27	2	2	Jno. T. Boggs.	
Little Mountain	Newberry	711	8	62.2	-2.8	86	1	42	*5	31	1.73	-1.61	1.43		4	23	6	2	John M. Sease, M. D.	
Longshore	Newberry	530	8	62.3	0	86	*18	36	19	47	1.37	-2.06	0.92		3	23	4	4	W. G. Peterson.	
Lugoff (d)	Kershaw	168	8	60.8		83	12	33	19	41					21	5	1	W. J. Burdell, M. D.		
Monopolis	Berkeley	54	8	62.2	-2.0	79	13	40	19	26	0.86	-3.16	0.40		4	20	11	0	E. P. Ravenel.	
Raleigh, N. C.	Wake	376	15	60.0	0	83	23	38	26	31	1.62	-2.11	0.98		6	24	3	4	Weather Bureau.	
St. Georges	Dorchester	109	13	62.5	-1.6	85	24	37	19	36	0.42	-1.99	0.30		2	21	6	4	W. B. Raynor.	
St. Matthews	Orangeburg	269	13	62.8	-1.7	86	24	36	19	34	0.66	-1.80	0.50		2	22	6	3	J. S. Warrnamaker.	
St. Stephens	Berkeley	73	9								0.57	-2.28	0.26		5	20	3	8	C. T. Shuler.	
Saluda	Saluda	536																	W. A. Edwards, Jr.	
Santee	Union	512	8	59.4	-2.5	85	1	31	19	43	0.92	-2.74	0.72		2	22	7	2	E. W. Jeter.	
Savannah, Ga.	Chatham	71	32	66.8	0	86	1	50	15	30	0.98	-2.67	0.48		5	18	11	2	Weather Bureau.	
Seivern	Aiken	482	13	61.2	-3.0	92	1	29	19	48	0.61	-3.33	0.39		3	17	9	5	J. F. Lyles.	
Smiths Mills	Williamsburg	62	6								2.70	-1.61	2.10		3	22	2	7	H. van Keuren.	
Society Hill	Darlington	192	10	61.5	-0.3	82	13	36	18	31	0.20	-3.36	0.10		5	20	10	1	J. J. Lucas.	
Spartanburg	Spartanburg	875	10	60.6	-0.4	85	*1	36	19	37	1.01	-2.07	0.97		2	24	3	4	F. P. Robinson.	
Statesburg	Sumter	500	21	64.1	+0.6	87	1	41	19	33	0.56	-2.60	0.22		7	20	8	3	W. W. Anderson, M. D.	
Summerville	Dorchester	75	4	63.1	-2.9	85	1	36	18	35	1.03	-4.94	0.70		5	20	8	3	Prof. Jno. Gadsden.	
Sumter	Sumter	169																	Prof. W. A. Buckner.	
Temperance	Marion	100	3	61.8	-4.6	89	1	33	18	40	0.62	-3.24	0.35		2	22	6	3	J. R. Reaves.	
Trenton	Edgefield	620	8	64.4	-1.6	84	1	47	*15	22	2.86	-0.88	1.41		3	23	8	0	C. A. Long.	
Trial	Berkeley	85	15	61.2	-1.9	84	24	30	19	45	0.46	-2.78	0.35		3	20	4	7	Etsell Gaillard.	
Walhalla	Oconee	1,061	11	58.2	-1.4	82	*2	34	14	36	0.55	-2.85	0.55		1	27	2	2	S. M. Pagan.	
Wilmington, N. C.	New Hanover	52	32	63.8	-0.3	82	24	43	26	28	2.69	-1.25	1.42		5	17	12	2	Weather Bureau.	
Windsor	Aiken																		B. B. Hightower.	
Winnsboro	Fairfield	545	12	62.5	+0.3	85	1	40	26	31	1.35	-1.23	1.35		1	30	1	0	John W. Seigler.	
Winthrop College	York	690	2	61.3	-0.8	84	1	36	26	35	0.58	-2.60	0.55		2	27	4	0	Geo. B. Green.	
Yemassee	Beaufort	23	6	63.8	-2.1	87	*1	35	19	33	0.89	-1.83	0.50		5	19	7	5	R. G. Smith.	
Yorkville	York	680	13	63.4	+1.4	86	23	42	*18	36	0.69	-3.09	0.64		2	25	6	0	J. R. Schorb.	
MEANS—highest, lowest and dates, etc.				62.4	-1.6	92	1	29	19	48	0.89	-2.33	2.10		3	22	6	3	ne.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

† Mean from 7 a. m. and 9 and 2 p. m. observations.



## NOTATIONS.

[illegible]



Map of South Carolina showing counties and shaded regions. The map includes county names such as Oconee, Pickens, Green, Spartanburg, Cherokee, Union, Chester, Lancaster, York, Darlington, Marion, Florence, Richland, Lexington, Columbia, Aiken, Orangeburg, Barnwell, Dorchester, Berkeley, Georgetown, Charleston, Beaufort, and Hampton. Shaded regions are indicated by different patterns: horizontal lines, vertical lines, and a grid pattern. A legend at the bottom right explains the shading patterns and their corresponding values.

Scale of shades, in inches.

0 to 1	1 to 2	2 to 3
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## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

OCTOBER, 1901.

## DAILY PRECIPITATION FOR SOUTH CAROLINA, OCTOBER, 1901.

STATIONS.	Day of Month.																														Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Allendale		.62																													0.62
Anderson		.45											.53																		0.98
Augusta, Ga.	1.12	.29							T.	.01			.19																		1.61
Barksdale	T.	.37																													0.77
Batesburg		.25	.25										1.00																		1.50
Beaufort		.19	.02	T.					T.				.02	.08													.19			T.	0.50
Bennettsville																															0.78
Blackville		.24	.48						T.	.04			.02																T.		1.32
Bowman		.70	.12										.15														.35		T.		1.14
Calhoun Falls		.16											.98																		0.44
Camden		.16							T.				.27															.01			0.86
Charleston	T.	.52							.02	T.		.03	.06	.06												.16	.01		T.		1.04
Charlotte, N. C.		.02										1.02																			0.18
Cheraw(1)		.03	.01										.14																T.		0.25
Cheraw(2)		.03	.05										.17	T.																	0.30
Clemson College									T.			.30																T.			0.47
Columbia		.26	.06							.01		.02	.12															T.			1.10
Conway													.30	.80	T.													T.			0.33
Darlington, near		.17	.07						T.				.04														.05				0.73
Due West		.33											.40																		1.30
Edisto		.32								.72			.26																		1.42
Effingham		.27	.10							.60			.35															.10			0.88
Florence		.15												.70														.03			1.02
Gaffney		.04											.98															T.	T.		T.
Georgetown																															0.71
Gillisonville		.19	T.							.11		.08															.33				1.22
Greenville		.15											.67																		1.82
Greenwood		.58											.64																		0.85
Horse Cove, N. C.														.25	.08													.04			1.21
Kingstree(1)		.48												.40	.15													.10			0.69
Kingstree(2)		.56											.45																		1.73
Liberty	T.	.24							T.				.03	1.40																	1.37
Little Mountain		.05	.25										.92																		0.86
Longshore		.41	.04																												1.62
Lugoff													.15															.21			0.42
Pinopolis		.40	.10										.01	.98	.03													T.			0.66
Raleigh, N. C.		.54	.04																												0.57
St. Georges		.30											.12																		0.92
St. Matthews		.50											.16																		0.61
St. Stephens		.16	.04										.10	.16														.11			2.70
Saluda																															0.20
Santuc		.20											T.	.72																	0.98
Savannah, Ga.		.02	.28	T.					.17				.03	T.														.48		T.	0.61
Seivern		.39								.15			T.	.07															.10		2.20
Smiths Mills			.50											2.10																	0.20
Society Hill		.02	.01										.10	.02																	1.01
Spartanburg		.04											.97																		0.56
Statesburg		.08	.11	.01									.05	.09														.09	.13		1.03
Summerville		.76	.03							.07			.03															.14			
Sumter																															0.62
Temperance		.27											.35																		2.86
Trenton	1.17	.28											1.41															.06			0.46
Trial		.05							T.				.35																		0.55
Walhalla													.55																		2.69
Wilmington, N. C.		.25	T.										1.42	.92														.07	.03		1.35
Windsor																															0.58
Winnsboro													T.	.35																	0.80
Winthrop College		.03											.55																		0.69
Yemassee		.32	.18						.02				.02															.35		T.	
Yorkville		.05											.64																		

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR NOVEMBER, 1901.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

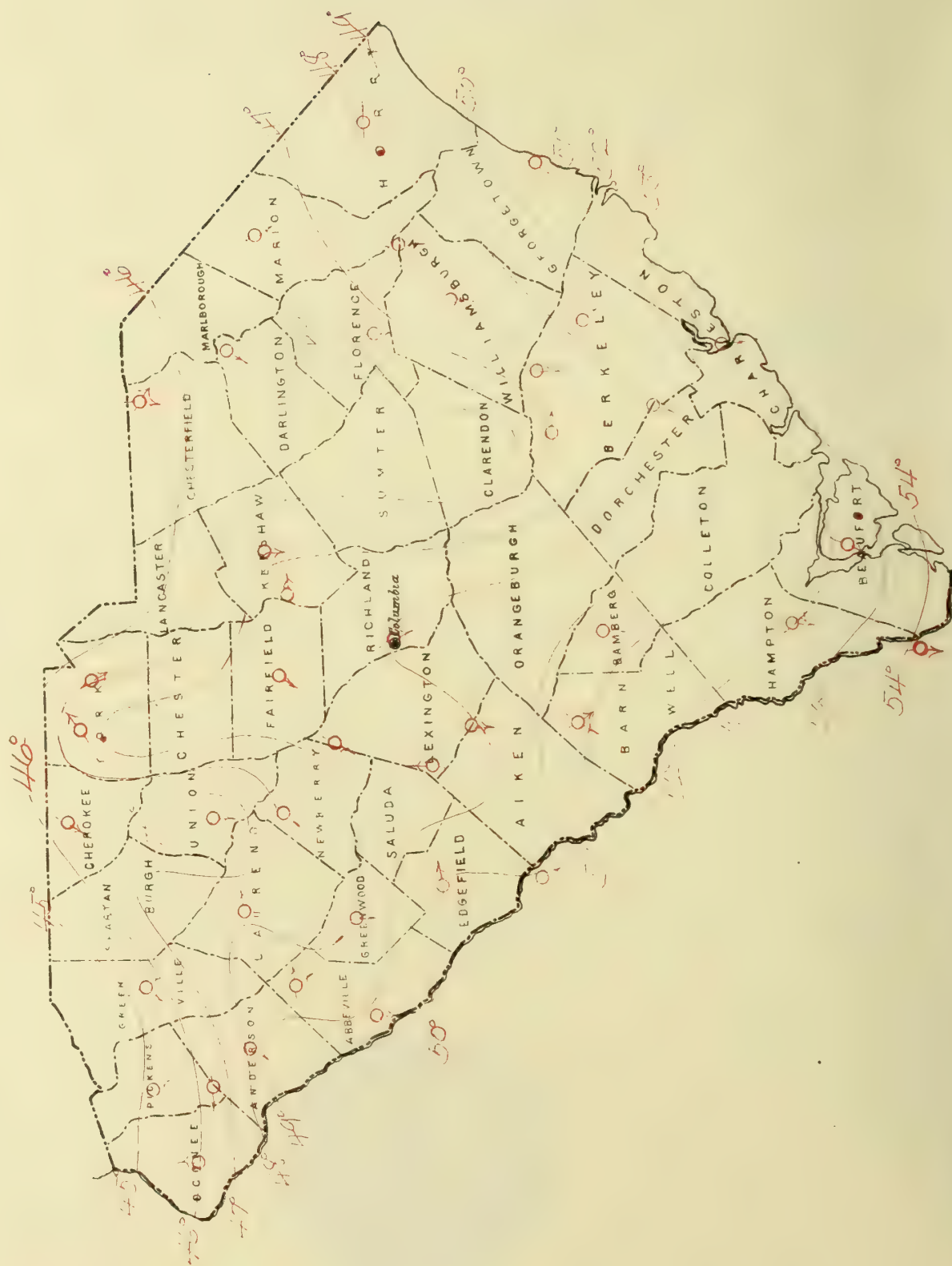


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., NOVEMBER, 1901. No. 11.

## CLIMATE AND CROPS.

The chief characteristics of November, 1901, were the low temperature, small precipitation, and the snowstorm of the 19th. The records of the regular Weather Bureau, and voluntary observing stations, some of them covering a period of over thirty years, do not show as low a mean temperature for the same month. This was due largely to the cool nights.

With the possible exceptions of the years 1886 and 1887, that mark the beginning of the good work being done by voluntary observers, and for which years the records are fragmentary, the month under review was also the driest November of record, while the snowstorm on the 19th was unprecedented, having been the earliest as well as the heaviest one on record for November.

Nevertheless, the month was justly considered a pleasant one, with little cloudiness, cool, bracing air, much bright sunshine, many frosty mornings, and generally light winds.

The first general killing frost of the season occurred on the 7th, and this about corresponds with the average date of first killing frost in South Carolina. Thereafter frost occurred frequently to the close of the month, at times with freezing temperature and thin ice. Vegetation was killed by the frost of the 7th, and fields became brown-hued, while the forests of oak, maple and gum trees became vari-colored in their gorgeousness, resembling the autumnal forests of more northerly latitudes.

Cotton continued to open after the first frost, but all half grown, and many full grown bolls became mushy and rotted after the killing frost touched them, materially reducing the yield of the top-crop that had looked promising over the western portions of the State. Although picking made rapid progress, it was not entirely finished by the close of the month.

The ground was too dry for favorable germination of oats and wheat, and even for plowing and preparing lands for these grains, except in a few localities where the rainfall was heaviest, and there seeding progressed rapidly. The amount of wheat and oats actually sown this November, and the acreage of the lands already prepared for these grains, are less than usual, owing to the droughty conditions, and the

lateness of much of the cotton, all of which has not been picked on lands intended to be sown to fall grains.

The truck region along the southeastern coast suffered seriously from the continued drought, which was unrelieved during the month, although some showers occurred that were extremely beneficial.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for November, 1901, was 48.2°, which is 6.0° below the normal. The highest local mean was 53.8° at Beaufort; the lowest 43.2° at Greenville. The highest temperature was 85° at Blackville and Temperance on the 1st; the lowest 17° at Lugoff, Seivern and Walhalla on the 29th, 18th and 16th, respectively, making the State range 68°. The greatest local monthly range was 66° at Darlington; the least 45° at Trenton. The mean of the daily maximum temperatures was 60.2°; of the daily minimum temperatures 36.2°. This was the coldest November of record.

Frost, first killing of the season.—On the 5th at Clemson College; on the 6th at Anderson, Barksdale, Darlington, Greenville, Greenwood, Liberty, Santuc, Society Hill, Spartanburg, Walhalla, Winthrop College and Yorkville; on the 7th at Beaufort, Camden, Cheraw, Columbia, Conway, Edisto, Effingham, Gaffney, Georgetown, Kingstree, Longshore, Pinopolis, St. George, St. Matthew, St. Stephens, Smiths Mills, Temperance and Yemassee; on the 15th at Allendale, Summerville and Winnsboro; on the 16th at Batesburg, Charleston, Due West, Statesburg and Trenton.

## Precipitation, in Inches.

The average precipitation was 1.01 inches, which is 1.84 below the normal. The amounts were quite evenly distributed, and were due to four general rainy periods, viz: on the 4-5th, 12th, 19th (snow in the western, central and northern counties), and 23d. No excessive precipitation occurred except at Georgetown which station had 3.00 inches in 24 hours on the 23d. Greatest local amount 3.10 at Georgetown; least 0.36 at Winnsboro. The average number of days with rain was 5, ranging from 2 at Georgetown to 7 at Charleston.

Hail.—Hail or sleet occurred at 5 stations on the 23d.

Sleet.—The storm on the 19th began as sleet at most points and turned into snow over a large portion of the State.

Snow.—Snow fell on the 19th to an average depth of 0.6 of an inch, with a maximum fall of 5.4 inches at Batesburg. This was the heaviest November snowstorm of record. In the western portions of the State, trace of snow remained on the ground until the 23d, on northern slopes crowned by woodlands.

Weather.—The average number of clear days was 21, partly cloudy 4, and cloudy 5.

Winds.—The prevailing direction of the wind was from the north and northwest at 15 stations each, from the northeast at



11, from the west at 7, from the south at 2, and from the east and southwest at 1 each.

High Winds.—Barksdale 14, Charleston 10th; Columbia 12-23-24th, Gillisonville 23-24th, Liberty 12-13-24-25-29th, Lugoff, Temperance 24th, Walhalla 12-13-14-15-25-26-29th.

#### EDITORIAL NOTE

New elevation data have been entered for nearly every station, on page 5 of this report, and the data as now published are approximately correct, and agree with Gannet's Dictionary of Altitudes in the United States. Some of the stations are, however, not on lines of railroads, and at such places the elevations have been approximated, after extensive correspondence.

#### MISCELLANEOUS PHENOMENA (with dates).

Aurora.—Liberty, 19.

Parhelion.—Liberty, 19.

Fogs, dense.—Beaufort, 9.

Lunar Coronæ.—Lugoff, 14, 18; Santuc, 27.

Lunar Halos.—Charleston, 22, 23, 24; Columbia, 22; Walhalla, 21, 22.

Thunderstorms.—Cheraw, Society Hill, 12; Liberty, Lugoff, Santuc, 23.

Solar Halos.—Charleston, 4, 7, 9, 22, 24, 27; Santuc, Statesburg, 27; Walhalla, 22, 27.

Ice, first of season.—Beaufort, 18; Blackville, 6; Charleston, 17; Conway, 13; Statesburg, 16; Temperance, 7.

Smoke, dense.—Barksdale, 2; Blackville, 9; Liberty, 1, 2, 3, 4, 5, 8, 9, 10, 11, 28; Statesburg, 9, 10, 11, 24.

#### REMARKS BY OBSERVERS.

Longshore.—The month was rather cool but afforded good weather for gathering crops.—W. G. Peterson.

Statesburg.—First half of month was mild and pleasant, the latter half cold and inclement.—W. W. Anderson, M. D.

Batesburg.—A very pleasant month throughout. There was very little rain. Snow fell all day on the 19th, but it melted as it fell.—E. S. Hite.

Little Mountain.—A large acreage of wheat and oats has been sown; stands are satisfactory. The early oats is suffering from the hessian fly.—J. M. Sease, M. D.

Society Hill.—Planting of small grain has been greatly delayed by drought conditions, and stiff soils are as yet too hard to plow to advantage.—Maj. J. J. Lucas.

Barksdale.—The month has been dry and cold. The ground is hard and dry. Farmers have sown some wheat. The killing frost of the 6th did little damage.—E. E. Putnam.

Walhalla.—Precipitation 3.05 inches below the normal. The minimum temperature of the 16th is lowest on record for any November. Mean temperature was 5.1° below the normal.—S. M. Pagan.

Bowman.—November was quite remarkable. Clear and cold nearly all the time. Unusually favorable for hog-killing. Much small grain was planted nearly all of which came up nicely.—B. O. Evans.

Summerville.—Average relative humidity 73 per cent. Deficiency of rainfall for November 2.51 inches, and since July 1st the deficiency is 12.54 inches. The drought becomes alarming.—Prof. Jno. Gadsdens.

Gillisonville.—Month dry and cold, unfavorable for fall seeding; condition of oats varies with the distribution of showers. Cotton all picked; less than half a crop was made. Gardens completely ruined.—Sam P. Saltus.

Blackville.—First ice formed on the 6th. Wheat, oats and rye need rain. Some seed have not come up owing to lack of moisture. Mean temperature 4.1° below normal, and precipitation 1.01 below normal.—G. D. C. Lange.

Trenton.—Precipitation 1.77 inches less than the 9-year average for November, and 5.68 inches more than the 8-year average for the first 11 months of the year. Warm weather is needed to bring up small grain.—C. A. Long.

Santuc.—The month was notable for the number of white frosts from the 16th to the close. There were more than ever before recorded in November. The month generally was clear, cold, frosty, and too dry for seeding fall grains.—E. W. Jeter.

Liberty.—Another very favorable month for gathering crops. It was too dry for sowing wheat until after the 23d, when rain softened the ground. Wheat has not come up. Cotton will not make over half an average crop.—Jno. T. Boggs.

Anderson.—On the 19th there was a heavy fall of snow, but it melted almost as fast as it fell. November gave pleasant weather. Much cotton is not yet open; very little wheat has been sown as the ground is too dry and lands have not all been cleared of cotton.—R. B. Dean.

Beaufort.—The mean temperature was 5.5° below the normal, and was even lower than the December normal by half a degree. Precipitation was 0.89 below the normal, and since September 1st is 9.36 inches below the normal, making it the driest autumn on record. On the 16th and 17th, forest fires spread over large areas and did much damage.—S. M. Benton.



CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.							Precipitation—in inches.				Sky.				Prevailing direction of wind.	Observations.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall—unmelted.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.			
Allendale	Barnwell	180	13	52.4	3.1	80	2	28	*18	36	0.40	2.02	0.30		2	24	1	5		B. F. Wilson.	
Anderson	Anderson	704	0	49.0	1.1	82	1	22	17	38	0.67	-2.58	0.27	2.0	4	24	2	4	ne.	R. B. Dean.	
Augusta, Ga.	Richmond	131	30	50.0	-4.0	79	1	25	18	34	1.09	1.89	0.32		5	19	6	5	nw.	Weather Bureau.	
Barksdale	Laurens	780		18.4		77	1	24	18	34	0.55		0.13	2.0	4	24	3	4	w.	E. E. Putnam.	
Batesburg	Lexington	656	13	48.2	-5.9	80	1	28	17	37	1.01	-1.63	0.54	5.4	4	21	6	3	s.	E. J. Hite.	
Beaufort	Beaufort	28	15	53.8	-5.5	82	2	24	18	37	1.36	-0.89	0.58		6	22	4	4	ne.	S. M. Benton.	
Bennettsville	Marlboro																			R. T. Barfield.	
Blackville	Barnwell	206	13	51.6	4.1	85	1	23	*18	45	1.07	-1.01	0.52		6	21	6	3	nw.	G. D. C. Lange.	
Bowman	Orangeburg	160		49.2		82	1	20	29	42	1.01		0.52	T.	4	23	3	4	nw.	B. O. Evans.	
Calhoun Falls	Abbeville	508	8								0.99	2.33	0.49	1.0	3	25	1	4	n.	P. J. Pfeiffer.	
Canden	Kershaw	222	35								0.63	1.71	0.24	T.	5	21	5	1	w.	B. Ammons.	
Charleston	Charleston	48	32	53.0	-5.0	78	1	32	17	22	0.79	2.18	0.44		7	18	7	5	n.	Weather Bureau.	
Charlotte, N. C.	Mecklenburg	808	23	46.0	-4.0	77	1	27	29	28	0.98	-1.07	0.83		4	19	3	8	n.	Weather Bureau.	
Cheraw (1)	Chesterfield	144	13	45.2	7.6	77	2	18	29	41	0.64	-1.51	0.24		5	20	2	8	n.	W. R. Godfrey.	
Cheraw (2)	Cheraw	144	8								0.56	-2.38	0.15		5	20	6	4	n.	Jno. H. Powe.	
Clemson College	Oconee	850	10	44.9	-6.3	80	1	18	*16	36	0.75	-2.46	0.31		5	20	4	6	e.	Prof. C. C. Newman.	
Columbia	Richland	351	14	49.0	5.8	80	1	27	29	31	0.95	-1.09	0.35	3.3	5	17	7	6	nw.	Central Office.	
Conway	Horry	25	10	48.0		82	1	18	29	12	1.40	-1.36	0.55	1.5	5	24	0	6	w.	P. Quattlebaum.	
Darlington	Darlington	178	6	46.8		84	1	18	28	41	1.48	-1.39	0.47	T.	6	23	2	5		E. R. McIver.	
Due West	Abbeville	740		48.0		77	1	24	17	32	0.52		0.19	1.6	3	24	3	3	w.	Rev. O. Y. Bonner.	
Edisto	Bamberg	127	8								0.78	2.36	0.38	T.	6	21	3	6	n.	Miss Jerry Carter.	
Ellingham	Florence	106	9								1.82	-0.84	0.55	T.	6	19	7	4	n.	A. J. Howard.	
Florence	Florence	136	13	46.4	-8.9	71	1	27	*17	31	1.20	1.25	0.70		3	16	1	6	n.	H. K. Gilbert.	
Galley	Cherokee	893	5	45.5		80	2	22	*18	37	0.41	-3.23	0.49		5				ne.	B. E. Camp.	
Georgetown	Georgetown	12	8	50.8	-5.9	81	1	26	29	29	3.10	+0.60	3.00	T.	2	28	1	1	ne.	W. T. Turbeville.	
Gilsonville	Hampton	50	6	50.5	-7.1	84	1	20	29	45	0.96	2.04	0.43		3	24	0	6	n.	Sam P. Saltus.	
Greenville	Greenville	989	9	43.2	-7.3	76	2	19	29	38	0.68	-3.22	0.55	T.	4	21	2	7	ne.	Mrs. S. A. Crittenden.	
Greenwood	Greenwood	671	13	40.9	-5.5	81	2	22	18	38	0.90	-2.14	0.35	2.0	3	16	6	8	n.	M. M. Calhoun.	
Horse Cove, N. C.	Macon	800	9	42.7	-2.8	72	1	18	16	23	1.41	-3.06	0.79	1.5	4	17	9	4	nw.	B. C. Hawkins.	
Kingstree (1)	Williamsburg	3,544	13	48.7	-6.8	79	1	23	18	29	1.54	-1.20	0.74	T.	6	21	4	5		C. J. Lesesne.	
Kingstree (2)	Williamsburg	54									1.62	-1.23	0.74	T.	6	20	4	6	n.	W. H. Matthews.	
Liberty	Pickens	900		44.6	-5.7	72	1	19	17	37	1.03	-1.90	0.57	0.1	4	22	2	6	nw.	Jno. T. Boggs.	
Little Mountain	Newberry	711	8	48.2	-7.3	78	1	25	18	36	1.13	-1.58	0.45	1.0	5	21	3	6	ne.	John M. Sease, M. D.	
Longshore	Newberry	530	8	47.4	5.7	80	1	23	29	39	1.47	-1.85	0.50	2.5	6	17	7	6	ne.	W. G. Peterson.	
Lugoff	Kershaw	168		48.4		80	1	17	29	44	0.57		0.24	2.4	5	20	6	4	n.	W. J. Burdell, M. D.	
Monopolis	Berkeley	54	8	48.2	-7.0	75	*1	24	29	30	1.32	1.75	0.50		4	24	0	6	nw.	E. P. Ravenel.	
Raleigh, N. C.	Wake	370	15	45.0	5.0	77	1	20	29	34	0.82	-1.41	0.35		6	19	5	6	nw.	Weather Bureau.	
St. Georges	Dorchester	109	13	49.3	-6.5	80	1	22	29	39	0.86	-1.60	0.52	T.	6	19	6	5		W. B. Raysor.	
St. Matthews	Orangeburg	260	13	49.1	-6.7	77	1	24	18	36	0.70	-1.49	0.45	T.	4	20	4	6		J. S. Wainmaker.	
St. Stephens	Berkeley	73	9								1.19	-1.28	0.42	T.	5	22	3	5	n.	C. T. Shuler.	
Saluda	Saluda	536																		W. A. Edwards, Jr.	
Union	Union	512	8	44.8	-6.7	79	1	16	29	44	0.85	-2.41	0.43		5	19	6	5	n.	E. W. Jeter.	
Waynesboro, Ga.	Chatham	71	32	51.0	-4.0	81	1	31	17	28	1.01	-1.35	0.57		5	21	6	3	n.	Weather Bureau.	
Waynesboro	Aiken	482		47.1	-7.9	82	1	17	*18	48	0.99	-2.15	0.28	2.8	5	21	4	5	n.	J. F. Lyles.	
Watts Mills	Williamsburg	62	6								1.12	-2.22	0.58	T.	6	20	4	6	n.	H. van Keuren.	
Wedge Hill	Darlington	192	10	46.5	-6.6	75	*1	21	28	36	1.10	-1.44	0.41		5	23	3	4	ne.	J. J. Lucas.	
Spartanburg	Spartanburg	875	10	46.2	-5.5	80	2	21	17	35	0.96	-2.19	0.44		4	20	0	10	w.	F. P. Robinson.	
Statesburg	Sumter	500	21	50.0	-4.2	80	2	28	18	34	1.50	-0.58	0.60	0.5	5	18	8	4	w.	W. W. Anderson, M. D.	
Summerville	Dorchester	75	4	49.5	-6.6	78	1	23	*17	38	0.96	-2.51	0.37		5	19	7	4	ne.	Prof. Jno. Gadsden.	
Sumter	Sumter	169																		Prof. W. A. Buckner.	
Temperance	Marion	100	3	46.7	-9.1	85	1	18	28	49	1.11	-1.57	0.41		5	24	2	4	nw.	J. R. Reaves.	
Trenton	Edgefield	620	8	50.8	5.0	77	1	32	16	27	1.12	-1.77	0.51	T.	5	22	6	2	w.	C. A. Long.	
Trial	Berkeley	85	15	46.0	-9.0	80	1	15	29	42	1.32	-1.25	0.40		6	22	3	5	w.	Etsell Gaillard.	
Valhalla	Oconee	1,061	11	44.5	-5.1	79	1	17	16	37	0.36	-3.05	0.27	T.	4	17	8	5	s.	S. M. Pagan.	
Villmington, N. C.	New Hanover	52	32	49.0	-6.0	78	1	26	29	30	1.16	1.28	0.59		4	20	5	5	nw.	Weather Bureau.	
Vindor	Aiken																			B. B. Hightower.	
Vinnsboro	Fairfield	545	12	48.1	-5.4	83	2	27	*16	33	0.63	-2.37	0.40	T.	3	25	4	1	ne.	John W. Seigler.	
Vinthrop College	York	600	2	45.9	7.4	78	1	24	29	35	1.04	-1.95	0.50		3	18	9	3	nw.	Geo. B. Green.	
Wamassee	Beaufort	23	6	51.2	-5.9	81	1	26	18	33	0.83	-1.71	0.39		5	20	5	5		R. G. Smith.	
Yorkville	York	680	13	48.6	-4.5	82	1	25	18	33	0.89	2.09	0.60		3	20	3	7	sw.	J. R. Schorb.	
MEANS—highest, lowest and dates, etc.					48.2	-6.0	85	1	17	*16	49	1.01	-1.84	3.00	0.6	5	21	4	5	n.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

+ Mean from 7 a. m., and 9 and 2 p. m. observations.

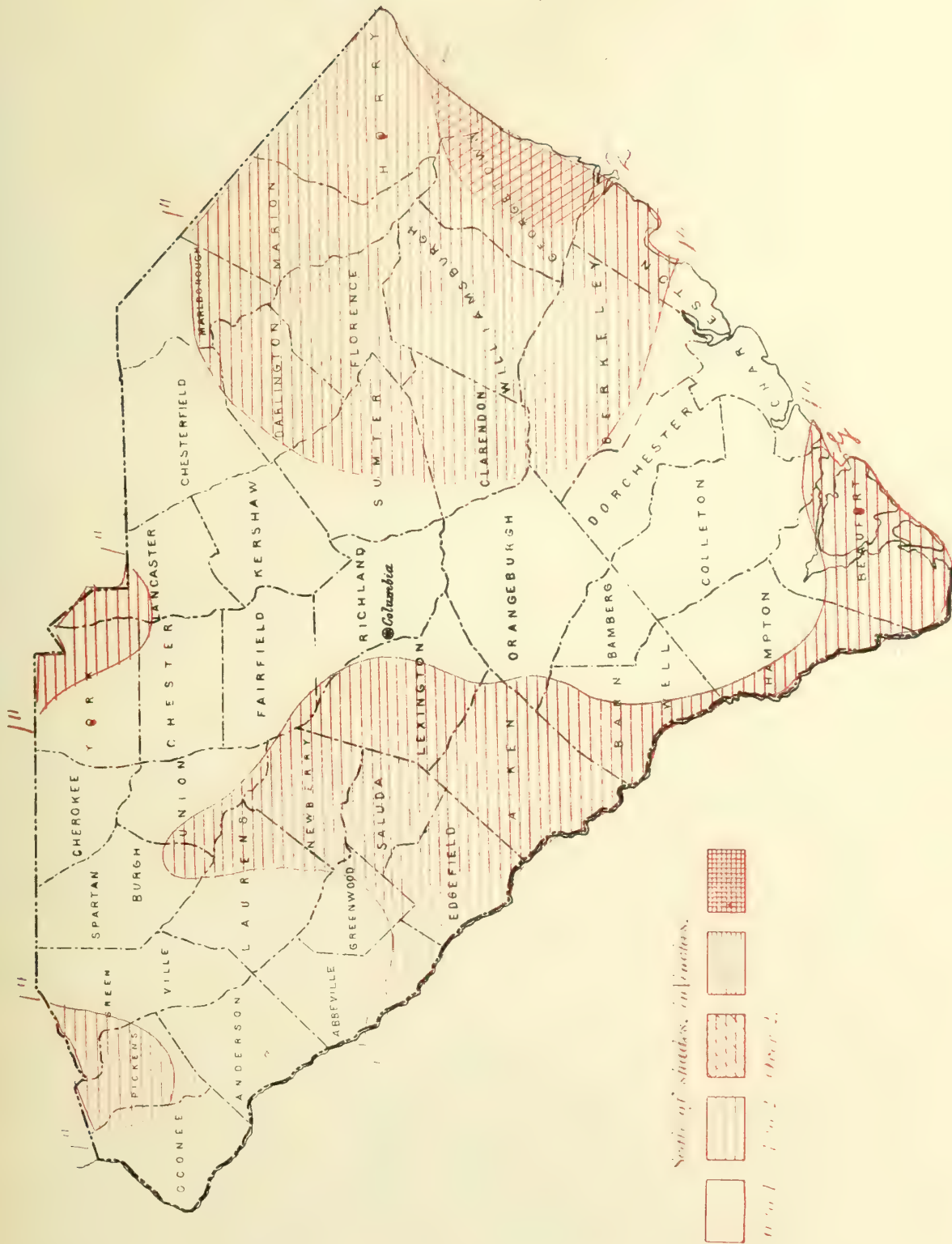


SYNOPSIS.

[illegible]



# TOTAL PRECIPITATION FOR DECEMBER, 1901.





## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

NOVEMBER, 1901.

## DAILY PRECIPITATION FOR SOUTH CAROLINA, NOVEMBER, 1901.

STATIONS.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Allendale				.10								.10							.30													0.40
Anderson				.10								.10							.20				.27									0.67
Augusta, Ga.				.18	.28							.04							.32	T.			.27									1.09
Barksdale				.13								.10							.02				.30									0.55
Batesburg				.10								.12							.54				.25									1.01
Beaufort				.04	.17							.02							.58	.28			.27									1.36
Bennettsville												.05							.02	.35			.06									1.07
Blackville				.12	.40	T.						T.							.34	T.		.15										1.01
Bowman				.22															.49				.28									0.99
Calhoun Falls																				.24		T.	.15									0.63
Camden	T.				.03	.10					T.	.11							.34	.10			.02	.25								0.79
Charleston	T.			.02	.05	T.					T.	.01											.83	.01								0.98
Charlotte, N. C.				.11	T.							.03											.12	.24								0.61
Cheraw(1)				.08	.02							.15											.11	.24								0.56
Cheraw(2)				.07	.02							.12											.13									0.75
Clemson College				.14								.12								.05			.31	.13								0.95
Columbia				.11	.12							.04								.33			.35									1.40
Conway				.55	.10							.15								.15			.45									1.48
Darlington, near				.42	.25							.17								.11			.06	.47								0.52
Due West				.17																.16			.19									0.78
Edisto					.06							.10								.03	.35		.14	.10								1.82
Effingham				.70	.22							.20								.45			.05									1.20
Florence				.70								T.											.35	.49								1.41
Gaffney				.02	.25							.30											.30									1.10
Georgetown				T.	.10							T.								.16			3.00									0.96
Gillisonville				.11	.10							T.								.43			.43									0.68
Greenville				.35																.01	.01		.55	.11								0.96
Greenwood				.18	.35							.27								.35			.05	.15								1.41
Horse Cove, N. C.				.63	.11							T.	.12							T.	.30		.76	.32								1.55
Kingstree(1)				.63	.11							.15								T.	.35		.08	.30								1.66
Kingstree(2)				.25								.20								.01			.57									1.01
Liberty				.18	.03							.10								.37			.15									1.11
Little Mountain				.45						.01	.09									.50			.06	.36								0.55
Longshore				.09	.02							.07								.24			.15									1.33
Lugoff				.40	.13							.20								.50			.07	.22								0.88
Pinopolis				.07	.09	.01						.07								.10	.42		.16	.06								0.77
Raleigh, N. C.				.05								.05								T.	.45		.10									1.11
St. Georges				.10								.09									.42			.29								0.88
St. Matthews				.36	.03																											1.00
St. Stephens																				.02			.43									0.99
Saluda				.20	.06							T.								.17	.15		.13									1.11
Santuc				.08	.18							.02								.28			.28									0.99
Savannah, Ga.				.25	.16							.10											.14	.20								1.11
Seivern				.40	.18							.41											.12	.33								0.99
Smiths Mills				.16	.08							.16											.44	.13								1.55
Society Hill				T.	.23							.15								.23			.39									0.99
Spartanburg				.56	.17							.04								.37			.07	.19								1.55
Statesburg				.29																												0.99
Summerville																																1.11
Sumter				.36	.13							.16								.05			T.	.41								1.11
Temperance				.25	.04							.01								.28			.51									1.11
Trenton				.40	.08							.05								.40			.08									0.99
Trial				T.								.02								.07			.27									1.11
Walhalla				.45	.07							.05	T.							T.	T.		.59	T.								0.99
Wilmington, N. C.												.06								.17			.40									1.11
Windsor				.13								.41											.50									0.99
Winnsboro				.08								.27								.02	.34		.08	.31								0.99
Winthrop College				.02																			.60									1.11
Yemassee																																0.99
Yorkville																																1.11

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR DECEMBER, 1901.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

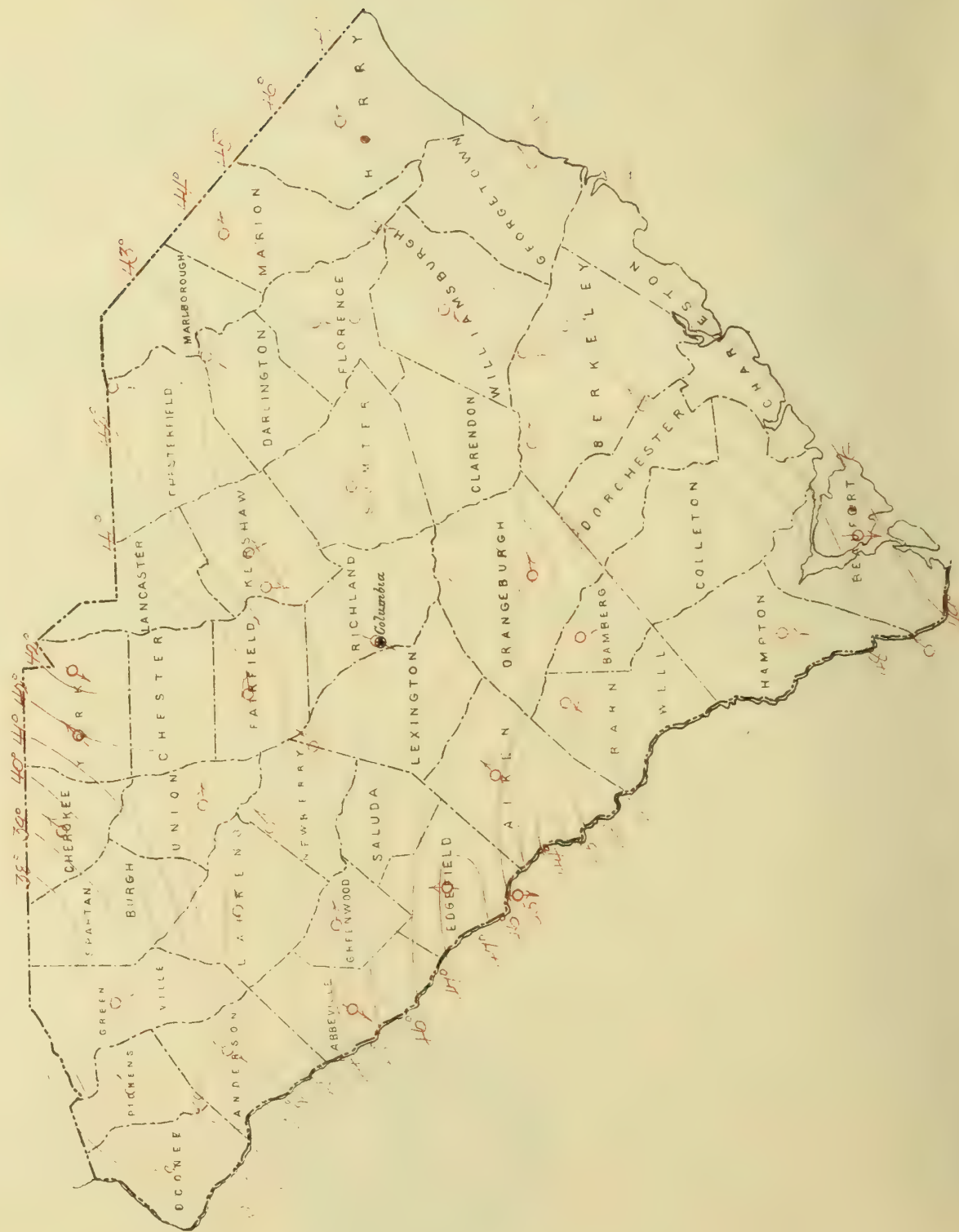


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1901.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. IV. COLUMBIA, S. C., DECEMBER, 1901. No. 12.

## CLIMATE AND CROPS.

The weather during the month was generally unfavorable on agricultural interests. Wheat sowing, which had been previously delayed by dry weather and other causes, was still further delayed by too much rain and the fact that the ground was frozen during a large portion of the time, rendering the soil unfit. In the extreme western portion, there were only three or four days on which wheat could be sown, but the number increased eastward until near the coast where the conditions were more favorable, except that the temperature was too low at times. Truck suffered severely, having been killed at places, while generally it was too cold, and at points on the coast, too dry for favorable growth. Oats were largely winter-killed during the freeze from the 15th to the 22d, and at the close of the month bottom land oats were injured by floods. Oats on light sandy soils seem to have suffered more injury from the freeze than those planted on heavier soils. There would be much resowing of oats were it not for the scarcity and the high price of seed oats.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean for December, 1901, was  $44.0^{\circ}$ , which is  $2.2^{\circ}$  below the normal. The highest local mean was  $49.4^{\circ}$  at Beaufort, the lowest  $36.9^{\circ}$  at Greenville. The highest maximum was  $80^{\circ}$  at Blackville on the 25th, the lowest minimum was  $2^{\circ}$  degrees at Liberty on the 21st, making the State range  $78^{\circ}$ . The greatest local monthly range was  $69^{\circ}$  at Sumter, the least  $51^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $54.4^{\circ}$  and of the daily minimum temperatures was  $33.5^{\circ}$ .

Ice.—Ice occurred as far eastward as the coast, with a thickness of two inches at Beaufort, and at Conway Kingston lake was frozen over with ice two-thirds of an inch thick. The ground was frozen to a depth of nearly two inches by the 22d, near the central part of the State.

Precipitation, in Inches.

The average precipitation was 5.01 inches, which is 1.91 above the normal. The precipitation was heaviest, with over ten inches, in the extreme northwestern portion, from whence there were gradually decreasing amounts towards the south-

eastern portion, where between one and two inches fell, and where the pre-existing drought was only partially relieved. The greatest local amount was 10.23 inches at Spartanburg, the least 1.28 at Gillisonville. The greatest 24-hourly fall was 5.10 inches at Liberty on the 28-29th. The average number of days with rain was 11, ranging from 4 at Winnsboro to 17 at Columbia.

Sleet.—Sleet occurred on the 5th at Blackville, Georgetown, Summerville and Trial; on the 16th at Charleston; on the 19th at Beaufort; on the 22d at Clemson College; on the 23d at Liberty and Spartanburg; on the 22-23d at Walhalla.

Snow.—Snow was recorded in the State on the 5th, 6th, 16th, 17th and 19th. With the exception of the snowfall on the 19th, that stayed on the ground until about the 22d, it melted as it fell. The heaviest fall was also on the 19th, with depths varying from "trace" to over two inches. The average depth of unmelted snowfall for the State was 0.7 of an inch, with a maximum depth of 3.5 inches at Greenville.

Excessive Precipitation.—Barksdale, 29th, 3.30, in 24 hours; Clemson College, 28th, 3.97, in 24 hours; Gaffney, 28-29th, 3.30, in 24 hours; Greenville, 28-29th, 3.83, in 24 hours; Greenwood, 14th, 2.75, in 7 hours; Liberty, 28-29th, 5.65, in 38 hours; Longshore, 28th, 2.74, in 18 hours; Santuc, 28-29th, 2.50, in 24 hours; Spartanburg, 28th, 3.50, in 24 hours; Statesburg, 28th, 2.72, in 18 hours; Walhalla, 28-29th, 3.00, in 24 hours.

Weather.—The average number of clear days was 13, partly cloudy 5, and cloudy 13.

Winds.—The prevailing direction of the wind was from the north at 11 stations, from the west, northeast and southwest at 9 each, from the northwest at 7, from the south at 3, and from the east at 1.

High Winds.—On the 14th at Blackville, Bowman, Charleston, Liberty, Little Mountain and Walhalla; on the 16th at Barksdale; on the 3d, 9th, 14th and 28th at Beaufort; on the 10th, 14th, 15th, 23d, 25th and 30th at Columbia; on the 9th, 15th and 16th at Gillisonville; on the 23d at Lugoff.

## MISCELLANEOUS PHENOMENA (with dates).

Aurora.—Beaufort, 4.

Sundog.—Liberty, 16.

Solar Halos.—Charleston, 2, 11, 12, 21, 23.

Thunderstorms.—Aiken, Blackville, 23; Charleston, 9; Longshore, 14.

Earthquake.—On the 1st at Lugoff, 8 p. m.; Statesburg, 7:20 p. m.; Summerville, 7:35 p. m., slight tremor.

Lunar Halos.—Blackville, 2; Charleston, 22, 23; Columbia, Little Mountain, Santuc, Walhalla, 22; Gillisonville, 23, 25; Liberty, 4; Society Hill, 27; Statesburg, 25, 26; Sumter, 18, 19.

Fogs, Dense.—Anderson, Kingstree, 25; Barksdale, 26; Beaufort, 1, 24; Charleston, 2, 3, 24, 25, 26, 27; Clemson College, 27, 30; Cheraw, 3, 24, 26; Edisto, St. Stephens, 24, 25; Gaffney, Santuc, 24, 26; Gillisonville, 13, 25; Liberty, 24, 25, 26; Little Mountain, 23, 24; Longshore, 3, 24; Society Hill, 23; Statesburg, 24, 28; Walhalla, 23, 26.



## REMARKS BY OBSERVERS.

Little Mountain.—Oats were badly damaged by cold, but wheat was not injured.—J. M. Sease, M. D.

Longshore.—This was the coldest December on record at this station. Oats were nearly all killed.—W. G. Peterson.

Sumter.—The snowfall of 19th measured 1.4 inches and was exceedingly light, the melted equivalent was only 0.04 of an inch as caught by the rain gage.—Prof. W. A. Buckner.

Batesburg.—The first and last portions of the month were pleasant, while the middle portion was very cold. Little or no farmwork was done during the month.—E. J. Hite.

Barksdale.—The month was very cold. Wheat is late in germination and growth; early fall oats are very good. The cotton crop has all been gathered.—E. E. Putnam.

Trenton.—The mean temperature was  $2.8^{\circ}$  less than the normal; the precipitation was 2.34 inches more than normal for the month, and for the year is 7.47 inches more than the normal.—C. A. Long.

Bowman.—There was some severely cold weather during a part of the month. The holidays were delightfully pleasant. The oat crop is thought to be badly injured on thin lands.—B. O. Evans.

Blackville.—Oats were injured by the freeze on the 17th and 22d. The monthly mean temperature was  $0.1^{\circ}$  above the normal for December; the precipitation was 0.56 of an inch more than the normal.—G. D. C. Lange.

Walhalla.—The storm of 22-23d gave rain, sleet and snow. The rain froze as it fell, and thawed on the morning of the 24th. The precipitation for the month was 4.43 inches above the normal.—S. M. Pagan.

Santuc.—Late in the month the rainfall was very heavy, and streams overflowed their banks. Freezing weather injured much of the oat crops. On the night of the 17th-18th there was a light snowfall, enough to whiten the ground.—E. W. Jeter.

Lugoff.—This was the coldest December for years. Winter oats were badly hurt, and on creek and river lands probably killed by floods. The Wateree river, and adjacent creeks, were very high on the 31st; the rise began on the 28th.—W. J. Burdell, M. D.

Statesburg.—Severe and continued freezing weather, after the middle of the month, was very disastrous to the oat crop in this county. Most of the sowing in this vicinity was done after October, and all such late sowings have been entirely killed, or greatly damaged.—W. W. Anderson, M. D.

Summerville.—The mean relative humidity for the month was 73 per cent. Earthquake tremor on 1st at 7:35 p. m. Very high winds from southwest on night of 9th. The minimum from the 16th to 23d averaged  $22.4^{\circ}$ . The monthly mean temperature was  $1.3^{\circ}$  below normal.—Prof. Jno. Gadsden.

Beaufort.—The mean temperature for December was  $2.9^{\circ}$  below normal, and the precipitation 0.82 below. Accumulated deficiency in temperature since January 1, 1901, is  $633^{\circ}$ ;

accumulated deficiency in precipitation since July 1 is 15.29 inches, and since January 1st 9.53 inches.—S. M. Benton.

Gillisonville.—The month was very cold, and all truck was killed. The oat crop was badly damaged, if not lost entirely; there is a scarcity of seed oats for resowing the killed lands. The high price for seed will also tend to reduce the acreage, and gives a gloomy cast to the future.—Sam P. Saltus.

Liberty.—Wheat sowing was not completed as there were only three or four days in the month when the soil and weather conditions would permit of sowing. The ground was wet, and froze frequently. Late sowings are just beginning to come up. The early fall was too dry to sow small grain.—Jno. T. Boggs.

Society Hill.—Oats on sandy soils were seriously injured during the extremely cold weather, from 15th to 22d. The precipitation for the month was 2.34 inches above the normal; temperature  $2.7^{\circ}$  below normal. The minimum of  $14^{\circ}$  on the 21st is the lowest for December since 1894, when  $9^{\circ}$  occurred.—Maj. J. J. Lucas.

## NOTES AND COMMENTS

Attention is called to the new normals that have been calculated for every station that has a four year or longer record of temperature and precipitation. The normals for the summer months, that is to say, for May to September inclusive, are based on from 9 to 14 years records, while at many of the cotton region stations the observations were neglected during the rest of the year until 1896 and 1897; since then the record is without any material breaks. While many changes have been made in the new normals, nevertheless the monthly means and the annual mean temperature are approximately the same as heretofore. The annual mean precipitation is considerably less, and agrees more nearly with the stations that have the longest record.

As in 1899, so in 1900, Orangeburg county produced more bales of cotton than any other county in the State, with a total of 52,293, which is, however, nearly 10,000 bales less than were produced in the same county in the census year. Sumter county again stands second, Marlboro third and Anderson fourth, but all of them with reduced yields. Georgetown county had the smallest yield, but with an increase of 27 bales over 1899. The following counties produced more cotton in 1900 than in 1899, viz: Aiken, Beaufort, Charleston, Chester, Colleton, Dorchester, Edgefield, Fairfield, Georgetown, Horry, Lancaster, Lexington, Marion, Oconee and York. The total production for the State was, however, 56,330 bales less than in 1900. The total yields, as given in the Census Bulletins, were for 1899 837,112, and for 1900 were 780,782 bales.

## ERRATA.

November Report, on page 5, the depth of unmelted snow fall should be "T" at Batesburg, Conway, Lugoff and Seivern, instead of 5.4, 1.5, 2.4 and 2.8, respectively. On page 3, make maximum fall of snow for the month "5" at Batesburg, should be 4.0 at Calhoun Falls. Page 2 and 7, the headings of the charts should read November instead of December.



## CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER, 1901.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number frosty days.			
Aiken	Aiken	527		45.6		76	13	10	21	38	5.55		1.75	2.0	10	15	5	11	sw.	C. F. McGahagan.	
Allendale	Barnwell	186	13																		
Anderson	Anderson	764	0	42.7	-1.3	60	3	12	21	35	8.80	+5.80	2.30		10	11	6	14	ne.	R. B. Dean.	
Augusta, Ga.	Richmond	144	30	44.0	-3.6	73	13	13	21	35	3.88	+0.48	1.85		13	7	11	13	nw.	Weather Bureau.	
Barksdale	Laurens	780		42.8		66	*14	11	21	38	7.27		3.30	0.3	9	23	2	6	w.	E. E. Putnam.	
Batesburg	Lexington	656	13	45.3	-1.1	71	14	18	*17	34	6.83	+4.38	2.00	0.9	11	15	5	11	n.	E. J. Hite.	
Beaufort	Beaufort	28	15	49.4	-2.9	74	13	20	*21	37	1.59	-0.82	0.52	T.	13	16	6	9	n.	S. M. Benton.	
Bennettsville	Marlboro																			R. T. Barfield.	
Blackville	Barnwell	296	13	47.0	+0.1	80	25	14	21	45	4.17	+0.56	1.14	T.	13	12	10	9	ne.	G. D. C. Lange.	
Bowman	Orangeburg	160		46.9		76	2	14	17	43	2.23		0.80		T.	8	17	4	10	w.	B. O. Evans.
Calhoun Falls	Abbeville	508	8								7.16	+3.52	1.85	1.5	10	17	0	14	ne.	P. J. Pader.	
Camden	Kershaw	222	35								5.37	+2.22	1.59	0.3	13	14	4	13	n.	W. F. Hindson.	
Charleston	Charleston	48	32	49.0	-2.9	72	26	21	17	35	1.85	-1.39	0.46	0.1	13	11	9	11	ne.	Weather Bureau.	
Charlotte, N. C.	Mecklenburg	808	23	40.0	-3.7	68	14	10	21	43	5.79	+1.69	1.39	0.3	16	13	2	16	ne.	Weather Bureau.	
Cheraw (1)	Chesterfield	144	13	42.0	-2.5	74	*14	12	22	37	4.66	+2.06	1.84		10	9	7	15	n.	W. R. Godfrey.	
Cheraw (2)		144	8								4.71	+1.59	1.82	T.	10	13	4	14	n.	Jno. H. Powe.	
Clemson College	Oconee	850	10	39.0	-3.5	68	*3	9	*20	35	9.50	+5.96	3.97	0.4	12	12	6	13	e.	Prof. C. C. Newman.	
Columbia	Richland	351	14	44.6	-3.3	73	14	16	17	38	4.88	+1.94	1.95	2.4	17	11	6	14	ne.	Central Office.	
Conway	Horry	25	10	46.2		78	28	14	22	42	5.21	+2.65	1.90	T.	8	12	0	19	w.	P. Quattlebaum.	
Darlington	Darlington	175	6	43.4		76	14	13	21	38	5.01	+2.14	1.44	0.4	10	17	3	11		E. R. McIver.	
Due West	Abbeville	740																		Rev. O. Y. Bonner.	
Edisto	Bamberg	127	8								4.21	+1.14	1.40	0.6	13	12	4	15	nw.	Miss Jerry Carter.	
Edinburgh	Florence	106	9								4.05	+0.84	1.27	0.2	9	13	6	12	nw.	A. J. Howard.	
Florence	Florence	136	13	43.2	-0.4	74	14	17	21	30	3.67	+1.21	1.25		7	10	1	20	n.	H. K. Gilbert.	
Gaffney	Cherokee	803	5	39.4		68	14	11	22	40	9.62	+6.06	3.20	1.7	15	13	4	14	sw.	B. F. Camp.	
Georgetown	Georgetown	12	8	47.2	-1.5	75	30	19	17	36	4.85	+1.53	1.50	T.	6	21	1	8	sw.	W. T. Turbeville.	
Gillisonville	Hampton	50	6	47.2	-1.1	75	*25	13	22	41	1.28	-2.84	0.55	T.	6	14	3	14	n.	Sam P. Saltus.	
Greenville	Greenville	989	9	36.9	-4.6	66	15	6	21	38	8.89	+5.69	3.83	3.5	12	13	2	16	nw.	Mrs. S. A. Crittenden.	
Greenwood	Greenwood	671	13	41.0	-1.7	71	14	13	*21	35	7.65	+4.41	2.75	1.0	10	11	2	18	w.	M. M. Calhoun.	
Heath Springs	Lancaster																			J. A. Weaver.	
Kingstree (1)	Williamsburg	54	13	43.6	-3.5	72	14	12	21	32	2.81	-0.24	0.72	0.4	11	14	2	15		M. Cullen.	
Kingstree (2)		54	7								2.91	-0.40	0.75	0.4	11	13	4	14	ne.	W. H. Matthews.	
Liberty	Pickens	900	7	40.0	-2.6	68	25	2	21	33	9.54	+6.13	5.10	2.5	9	14	5	12	sw.	Jno. T. Boggs.	
Little Mountain	Newberry	711	8	43.8	-3.1	71	14	15	17	30	5.13	+2.15	2.16	1.5	15	9	10	12	sw.	John M. Sease, M. D.	
Longshore	Newberry	530	8	42.2	-2.7	71	14	11	18	39	5.95	+2.71	2.74	1.5	11	10	7	14	sw.	W. G. Peterson.	
Lugoff	Kershaw	168		43.5		73	15	12	17	41	5.68		1.97	0.2	12	10	10	11	nw.	W. J. Burdell, M. D.	
Monopolis	Berkeley	54	8	47.0	-0.8	74	14	20	*17	23	2.15	-1.09	0.60		8	11	10	10	nw.	E. P. Ravenel.	
Raleigh, N. C.	Wake	376	15	41.0	-1.9	72	13	10	22	48	5.46	+2.51	0.67		13	15	6	10	n.	Weather Bureau.	
St. Georges	Dorchester	100	13	44.2	-3.2	72	25	16	17	34	3.47	+0.01	1.19	0.9	11	12	5	14		W. B. Raysor.	
St. Matthews	Orangeburg	269	13	44.4	-2.7	72	14	14	*21	34	3.93	+1.00	1.05	1.2	12	14	4	13		J. S. Warramaker.	
St. Stephens	Berkeley	73	9			72	14				2.39	-0.92	0.54	0.1	9	13	5	13	n.	C. T. Shuler.	
Saluda	Saluda	536																		W. A. Edwards, Jr.	
Spartanburg	Union	512	8	40.8	-2.7	72	14	10	17	40	6.49	+3.30	2.50	1.5	15	11	7	13	w.	E. W. Jeter.	
Savannah, Ga.	Chatham	71	32	49.0	-3.0	73	25	18	21	31	1.02	-2.19	0.26		10	12	9	10	sw.	Weather Bureau.	
Severn	Aiken	482																		J. F. Lyles.	
Smiths Mills	Williamsburg	62	6								4.40	+0.21	1.46	T.	8	14	5	12	n.	H. van Keuren.	
Society Hill	Darlington	192	10	43.0	-2.7	73	14	14	21	28	5.12	+2.34	2.12	T.	10	14	7	10	ne.	J. J. Lucas.	
Spartanburg	Spartanburg	875	10	38.6	-5.0	67	26	7	21	34	10.23	+7.65	3.50	2.5	13	11	0	20		F. P. Robinson.	
Statesburg	Sumter	500	21	46.4	-1.2	74	14	16	17	35	5.31	+2.33	2.72	2.0	10	12	5	14	s.	W. W. Anderson, M. D.	
Summerville	Dorchester	75	4	47.6	-1.2	75	25	16	21	34	2.36	-1.66	0.55	0.3	13	12	8	11	sw.	Prof. Jno. Gadsden.	
Sumter	Sumter	169		46.4		79	27	10	17	37	5.06		2.00	1.4	12	14	4	13	nw.	Prof. W. A. Buckner.	
Temperance	Marion	100	3	44.6	-1.4	75	13	14	21	38	4.37	+2.32	1.43	0.6	10	16	4	11	w.	J. R. Reeves.	
Trenton	Edgefield	620	8	47.2	-1.0	72	14	14	21	33	5.67	+2.34	1.62	2.3	13	12	8	11	s.	C. A. Long.	
Trial	Berkeley	85	15	46.2	-2.4	76	14	11	22	44	2.43	-0.60	0.50	T.	9	12	8	11	w.	Etsell Gaillard.	
Walhalla	Oconee	1,061	11	37.9	-6.4	68	25	5	*20	37	7.41	+4.43	3.00	1.6	12	13	4	14	s.	S. M. Pagan.	
Wilmington, N. C.	New Hanover	52	32	47.0	-1.5	73	13	16	22	40	4.72	+1.74	2.26	0.3	14	12	8	11	n.	Weather Bureau.	
Windsor	Aiken																			B. B. Hightower.	
Winnaboro	Fairfield	545	12	41.0	-5.7	72	14	13	17	31	3.85	+1.05	1.75		4	22	2	7	w.	John W. Seigler.	
Winthrop College	York	690	2	41.8	-4.6	70	40	11	21	37	6.14	-3.30	1.70	0.7	11	6	17	8	ne.	Geo. B. Green.	
Yemassee	Beaufort	23	6	45.5	-2.6	74	14	16	*21	42	1.49	-2.11	0.32	T.	10	13	4	14		R. G. Smith.	
Yorkville	York	630	13	42.6	-3.5	69	*1	12	21	31	6.71	+3.73	1.64	1.0	12	12	4	15	sw.	J. R. Schorb.	
MEANS—highest, lowest and dates, etc.				44.0	-2.2	80	25	2	21	48	5.01	+1.91	5.10	0.7	11	13	5	13	n.		

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

+ Mean from 7 a. m., and 9 and 2 p. m. observations.

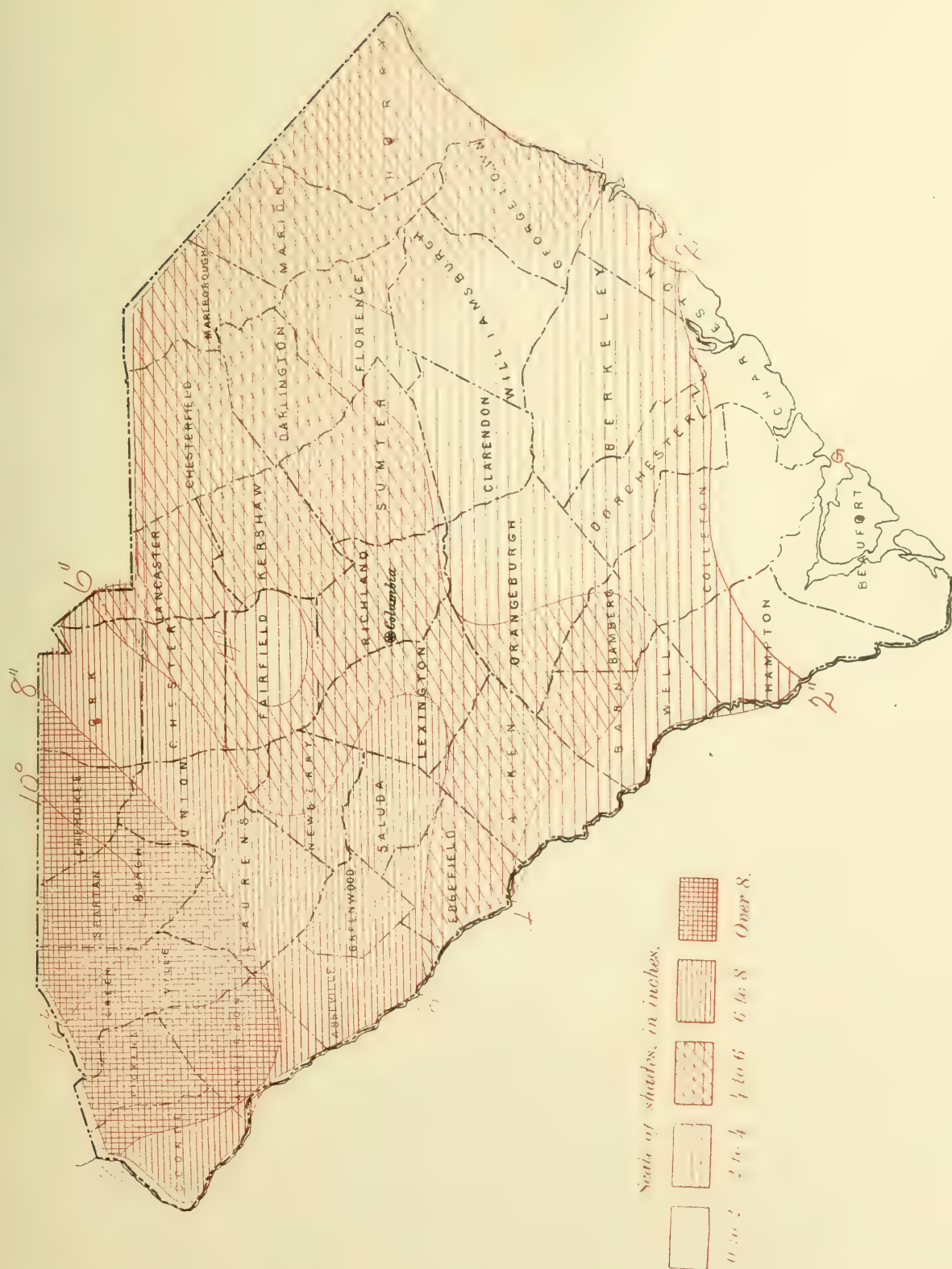


INFLATION.

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# TOTAL PRECIPITATION FOR DECEMBER, 1901.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1901.

STATIONS.	Day of Month.																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken		.60	.80		.10	T.			.25						.15	.35								.75	T.				1.75	.70	.10	5.55	
Allendale																																8.80	
Anderson		T.	.73		.90				.17				.09	1.48					T.	T.			.60				.70		1.77	2.30	.06	3.88	
Augusta, Ga.		.02	.25		.03	.07			.22					.02	.26	.37						T.		.28				.04	1.85	.37	T.	7.27	
Barksdale				.48			.03				.37				.02	1.00	1.45							.50				.12	T.		3.30	6.83	
Batesburg			.15			.20				.30				.55	1.29					.06				.85				.23	.15	2.00	.95	1.59	
Beaufort		.02	.19			.01				.10			.10	.03	.37					.03	.03			.52				.03	.01	.15		4.17	
Bennettsville																																2.43	
Blackville			.38	.02		.08			.01	.20				.01	1.14					.04					.38			.04	.38	.86	.63	4.17	
Bowman										.20			.15	T.	.80					.03				.45				.25	.30	.05	2.23		
Calhoun Falls			.22			.23				.82					.98				.22					.85		.62		.50	1.85	.87		7.16	
Camden			.19			.01	T.		.02	.13				.02	.26	1.11			T.	.02	T.				.46			.13	.60	1.59	.80	5.37	
Charleston		.10	.25		T.	.01			T.	.02			.12	.02	.29	T.			.01	T.			.45	.01			T.	.30	.26	.01	T.	1.85	
Charlotte, N. C.			.15		.03	.02			.11	.01			.26	.50	.70		T.		.03				.42	.01		.04	.75	1.30	1.39	.07	5.79		
Cheraw(1)			.10							.16				.13	.78													.29	.26	1.84	.50	4.06	
Cheraw(2)			.11							.16					.15	.78												.32	.30	1.82	.54	4.71	
Clemson College		1.22		T.		.16			.40		.15			1.53						.04		.01	.61			.53	.52	3.97	.36			3.98	
Columbia		.01	.19		T.	.09			.06	.07			.12	.16	.71				.06				.41	.01	.01	.01	.07	1.95	.93	.02	4.88		
Conway			1.00						.20					.43	1.90			T.			T.							.20	1.10	.18		5.21	
Darlington, near		.05	T.		T.				.08				.21	1.43					.04					.14			T.	.50	1.44	.42	.40	5.01	
Due West																																	
Edisto			1.28			.18			T.	.11			.03	.22	.52		T.				.04				.32	.18			.66	1.40	.22	.05	4.21
Effingham			.09			T.				.13				.30	.97					.30				.56					.75	.65	.30	4.05	
Florence			.30	.02										.20														.40	1.25	.40	1.10	3.67	
Gaffney			.48		.08	.15				.30				.17	3.20				.02			.02	.03			.52		.50	1.10	3.20	.80	.05	9.62
Georgetown			1.20		T.									.15			.75			T.				1.50				.75				4.85	
Gillisonville		.07							.15					.35					.01					.55				T.	.15			1.28	
Greenville			.90	.02		.03			.90				.01	.25	1.50				T.	T.				.61	T.	T.		.55	.29	3.83	.60	8.85	
Greenwood			.20			.15			.20						2.75										.70	.15		.15	1.25	1.60	.50	7.65	
Heath's Springs																																	
Kingstree(1)			.56			.02				.05			.20	.52	.28		T.			.02								T.	.18	.44	.36	2.81	
Kingstree(2)			.49			.02				.03			.25	.50	.35					.02					.25			T.	.17	.48	.35	2.91	
Liberty		T.	.41	T.		.45			.42				.22	1.20	.10					.05			.71			T.	.30		5.10	.55		9.54	
Little Mountain			.02	.06		.15			.10	.05			.05	.29	.94									.41		.06	.05	.08	2.16	.58	.10	5.11	
Longshore			.10			.16				.14			.03	1.37				T.										.27	.74	.55	.02	5.91	
Lugoff			.22	T.		.01			T.	.15			.46	1.10	1.25					.01								.40	.01			2.14	
Pinopolis			.35		.02				.04				.42	.31															.40	.01		5.41	
Raleigh, N. C.			.31		.06				T.	.15			.13	.73	1.75													.35	.12	.72	1.19	.20	3.41
St. Georges					.22				.09				.02	.25						.07								.34		.50	1.05	.65	3.91
St. Matthews			.20			.25			.08				.02	.25															.15	.20	.35	2.33	
St. Stephens			.72						.09					.25	.29					.01								.33					
Saluda																																	
Santuc.		T.	.07			.16			.01	.08			.28	.55	1.19				.01	T.				.66		.03	.03	.23	1.91	1.13	.15	6.41	
Savannah, Ga.		.10	.20			T.			.01	.08		T.	.10	T.	.26					T.	.01			.22				.02	T.	.02		1.01	
Seivern																																	
Smiths Mills			.50	.15						.60				.40	1.15														.10	1.10	.40		4.41
Society Hill			.07						T.	.23				.16	.88														.50	2.12	.53	.04	5.11
Spartanburg			.85		.12	.10				.43			.05	.12	3.08					.02									.64	.30	3.50	.37	10.21
Statesburg			.03						.14				.31	1.20						.06									.04	2.72	.41	.02	5.33
Summerville			.28	.02		.02			.24			.04	.28	.37					.03					.55	.01			.02	.30	.20	T.	2.33	
Sumter			.01			T.			.02	.13			.44	.02	.88					.14				.30	.18		T.	T.	2.00	.65	.29	T.	5.01
Temperance			.22	T.						.37		.22	.37	1.43						.06				.30						1.34	.50	.06	4.33
Trenton			.03	.11		.14				.32				.31	.84					.07				.47			.04	1.18	1.62	.49	.05	5.61	
Trial			.23			.05				.16		.03	.29	.45															.35	.50		2.41	
Walhalla			1.04		T.	.15				.55				1.62					T.	T.		.01									3.11		7.41
Wilmington, N. C.		T.	2.26						.05	.05				.57	.17			.02		T.		.01						.09	.01	.76	.65	.04	4.71
Windsor																																	
Winnboro																																	
Winthrop College			.22			.07			T.	.12			.04	.40	.75				T.	T.				.54				.75	1.70	1.19	.36	6.11	
Yemassee			.18							.04			.02	.06	.26														.01		.20	.09	1.41
Yorkville			.15			.10			.10				.16	.56	1.08					T.				.51			.07	.88	1.26	1.64	.20	6.71	

\* Precipitation included in that of the following day.

T indicates trace, less than .01 inch



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1902.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

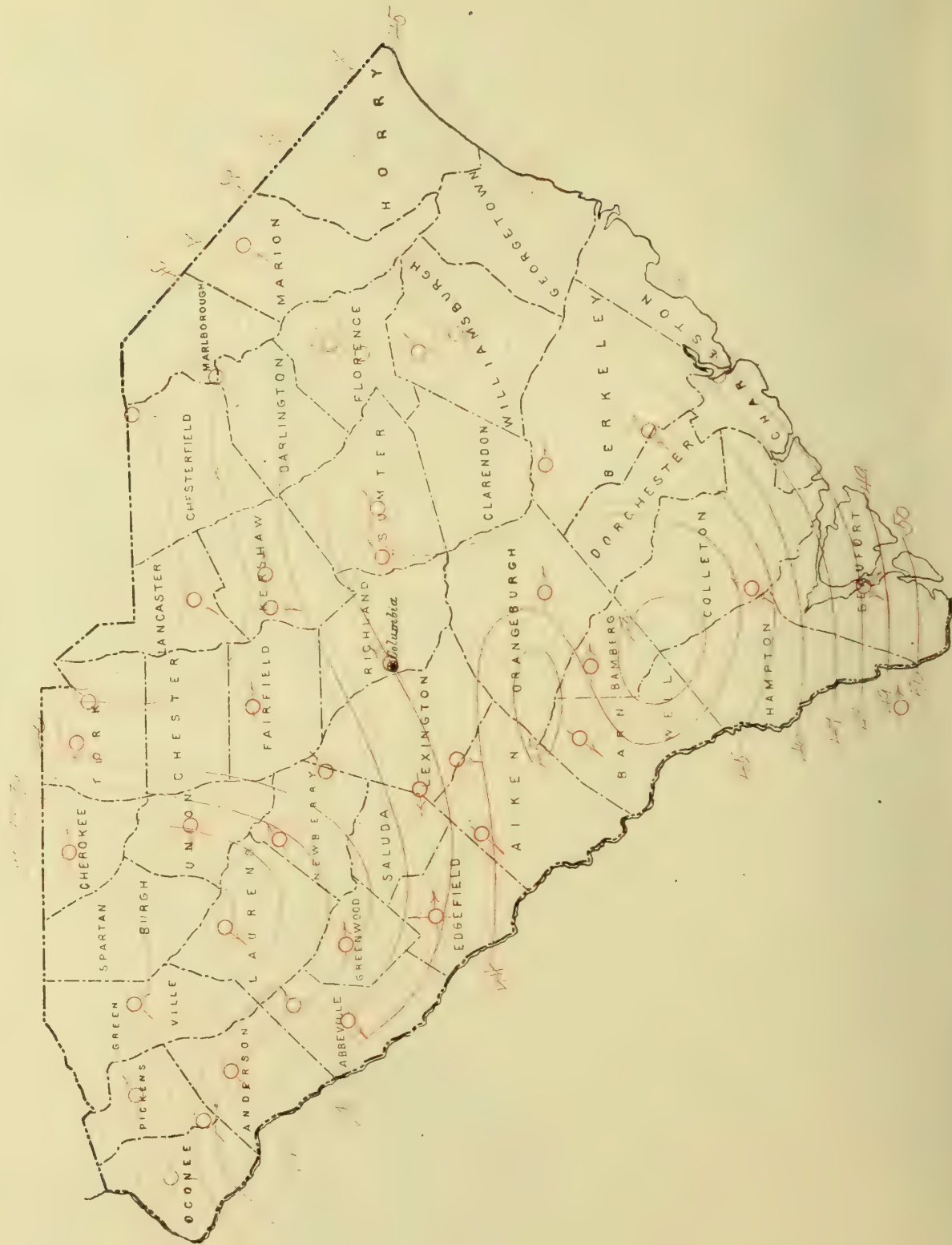


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JANUARY 1902.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. V. COLUMBIA, S. C., JANUARY, 1902. No. 1.

## CLIMATE AND CROPS.

The minimum temperature of  $11^{\circ}$  is not extremely low for January even in this State, and the maximum of  $80^{\circ}$  is seldom exceeded, nevertheless the average temperature was about as low as it has ever been recorded. This steady, low temperature was not conducive to growth, and, in the case of fruit-tree buds, was to that extent favorable, but in the case of newly sown wheat and oats, was unfavorable in preventing germination. Much of the land on which the oats crop was winter-killed during December was resown to oats, while lands that could not hitherto be sown to wheat were this month seeded, but as stated, little, if any came up during the month. It was also difficult to accurately estimate the extent of winter-killing as there was no sign of growth of any grain even where it is known that it was not winter-killed.

The precipitation was almost entirely in the form of rain and again exhibited a peculiarity of distribution by shading off regularly in amount from the northwestern towards the southeastern portions. The drought along the coast increased in severity to the detriment of early truck. The cool weather was also against the early development of truck. About the usual amount of early plowing was done, although in the western sections farm work made little progress, and there also the country roads were in bad condition especially towards the close of the month. Less than the usual amount of swelling of fruit buds was noted, and it is believed that fruit of all kinds escaped injury.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean for January, 1902, was  $42.4^{\circ}$  which is  $2.4^{\circ}$  below normal. The highest local mean was  $49.4^{\circ}$  at Beaufort, the lowest  $36.8^{\circ}$  at Greenville. The highest maximum temperature was  $80^{\circ}$  at Conway and Gillisonville on the 27th; the lowest minimum temperature was  $11^{\circ}$  at Temperance on the 4th, making the State range  $69^{\circ}$ . The greatest local monthly range was  $65^{\circ}$  at Temperance, the least  $38^{\circ}$  at Allendale and Heath Springs. The mean of the daily maximum temperatures was  $53.0^{\circ}$ , of the daily minimum temperatures  $31.8^{\circ}$ .

Ice.—Thin ice formed on a number of dates over the whole

State. Thin ice covered Kingston Lake, near Conway, on the mornings of the 6 7 8 9 15 19. The ground was frozen on many mornings, but thawed during the middle of the day, except on a few dates in the extreme western portions.

## Precipitation, in Inches.

The average for the month was 2.05 inches which is 1.43 below normal. The precipitation was heaviest in the northwestern portions where amounts between three and four inches were recorded. There were gradually lessening amounts towards the coast, and over a large area in the southeast portion, the precipitation averaged less than half an inch. The greatest local amount was 4.18 at Longshore, the least 0.36 at Blackville. The greatest 24-hourly fall was 1.90 at Georgetown on the 21st. The average number of days with rain was 5, ranging from 1 at Georgetown to 11 at Little Mountain.

Snow.—Only three stations reported any snow for January, as follows: Greenville "T" on the 21st; Liberty "T" on the 21st and 24th; Spartanburg "T" on the 21st.

Sleet.—Sleet was recorded as follows: Anderson, 29; Blackville, 18; Clemson College, 20; Due West, Greenville, Longshore, 21; Gaffney, 27, 28; Heath Springs, Winthrop College, 28; Liberty, 25, 29; Santuc, Yorkville, 28, 29; Spartanburg, 20, 28; Walhalla, 20, 21. The sleet storm of the night of the 28th and morning the 29th was especially destructive in Anderson, Spartanburg and Yorkville. Trees and wires were broken by the weight of the ice-covering they bore, that in instances was nearly half an inch thick.

Weather.—The average number of clear days was 15, partly cloudy 7, cloudy 9.

Winds.—The prevailing direction of the wind was from the southwest at 14 stations, from the west and northeast at 13 each, from the northwest at 8, from the north and south at 4 each, from the east at 3, and from the southeast at 1.

High Winds.—Beaufort, 21, 28; Bowman, 11, 12; Charleston, 21; Columbia, 4, 21, 22, 27; Gillisonville, 4, 11, 12, 21, 22; Heath Springs, 24; Longshore, Yorkville, 12; Walhalla, 3, 11, 12, 16, 21, 22.

## MISCELLANEOUS PHENOMENA (with dates).

Aurora.—Longshore, 31.

Earthquake.—Summerville, 22—10 to 11 a. m.

Thunderstorms.—Beaufort, 16; Bowman, 21; Little Mountain, 14, 20; Longshore, Santuc, 31.

Solar Halos.—Charleston, 4, 15, 18, 25, 31; Santuc, 2, 5; Statesburg, 2, 4; Walhalla, 2, 15.

Lunar Halos.—Charleston, 15, 18, 19, 25; Gillisonville, 18, 23; Greenville, Little Mountain, Lugoff, 15; Longshore, 23; Statesburg, 24.

Fogs, dense.—Aiken, 25, 28, 29, 30, 31; Blackville, 25, 28, 29, 30; Bowman, Smiths Mill, Sumter, 30, 31; Camden, Cheraw, Effingham, Kingstree, 19, 30; Charleston, 18, 30, 31; Clemson College, 18, 26, 28, 29; Columbia, 19, 29, 30, 31;



Conway, Edisto, Lugoff, St. George, St. Matthews, Yemassee, 30; Gillisonville, 3, 7, 29; Greenville, 26, 27; Heath Springs, 29; Liberty, 25, 26, 27, 30, 31; Little Mountain, 18, 25, 29, 30, 31; Longshore, 25, 30; St. Stephens, 19, 30, 31; Sumter, 19; Seivern, 23, 24, 25, 29, 30, 31; Statesburg, 19, 30, 31; Summerville, 15, 30; Trenton, 28, 29, 30, 31; Walhalla, 24; Yorkville, 25.

#### ERRATA.

December, 1901, report, pages 5 and 8: total precipitation at Greenville 8.89, should be 9.22; pages 5 and 8: total precipitation at Aiken 5.55, should be 5.75. Page 8th, Greenville, precipitation on the 9th 0.90, should be 0.31.

Annual Report, 1901, pages 5 and 9, total precipitation for the year at Greenville, 77.50, should be 77.83 inches and departure +23.96.

#### DELAYED DECEMBER REPORT.

Due West, mean temperature 42.6°, highest 67°, 14th; lowest 14°, 21st; total precipitation 6.94 inches; snowfall 2.3 inches; number of days with precipitation 10, clear 17, partly cloudy 6, cloudy 8; prevailing wind west.

#### REMARKS BY OBSERVERS.

Heath Springs.—Oats have been damaged by cold.—J. A. Weaner.

Summerville.—Twenty-six days were rainless. Average relative humidity 68 per cent. Winds and character of the day varying almost daily.—Prof. Jno. Gadsden.

Longshore.—First part of the month very dry, latter part wet; very little farm work has been done. Nearly all the oats were killed by the December freeze.—W. G. Peterson.

Batesburg.—There has been little or no farm work done, except hauling fertilizers. First of the month clear and dry, while the last week was damp, foggy and cloudy.—E. J. Hite.

Society Hill.—Oats that were killed by the December cold have been reseeded to a considerable extent. Mean temperature 2.2°, and rainfall 0.69 below normal.—Maj. J. J. Lucas.

Barksdale.—The first part of the month was generally clear, but the latter part was wet. Wheat and oats are very late, and have not their usual growth for the season.—E. E. Putnam.

Spartanburg.—On the night of the 20th there were rain, snow and sleet. On the 28th there were rain and sleet forming glare ice that broke all telegraph and telephone wires.—F. P. Robinson.

Walhalla.—Only a little plowing was practicable during the latter part of the month, it being too wet. Mean tempera-

ture 3.7°, and precipitation 0.49 of an inch below normal.—S. M. Pagan.

Blackville.—The weather was favorable for ploughing, and this work is about three-fourths finished. Monthly mean temperature 1.8°, and precipitation 3.14 inches below normal.—G. D. C. Lange.

Gillisonville.—The month was cold and dry. Frequent brisk, raw winds. Very little farm work has been done owing to a combination of adverse conditions. Laborers scarce and poor.—Sam P. Saltus.

Bowman.—Fall oats are badly damaged by cold. Considerable spring oats are now being sown. Gardens will be backward, although some gardening has been done. Field work well advanced.—B. O. Evans.

Lugoff.—Very little work has been done on the farms. Oats crop on highlands and in swamps badly damaged. Little or no replanting, possibly due to the high price of seed oats. The area sown to wheat is also small.—W. J. Burdell, M. D.

Santuc.—Some of the earliest sown oats escaped being winter-killed. Wheat in sprouting stages was hurt by the December cold weather, but a stand is now likely. The month ended wet, with five days of rain. Streams overflowed their banks.—E. W. Jeter.

Trenton.—Oats sown in November have been winter-killed. Some have resown oats, while others planted the lands to wheat. More oats will be sown in the spring. Mean temperature 4.8°, and precipitation 2.51 inches below normal.—C. A. Long.

Liberty.—The first of the month was clear and cold, but the ground could be plowed on portions of ten days. Wheat sowing was finished. Small grain sown before this month was badly winter-killed, especially fall oats. Plowing about half finished.—John T. Boggs.

Statesburg.—Cold waves followed each other in rapid succession, causing further damage to the oats crop, and retarded the progress of farm work, hence little has been done towards planting the next crops. No snow or sleet at this point, and the rains were light. The month ended wet.—W. W. Anderson, M. D.

Beaufort.—The mean temperature was 0.9 below normal; precipitation 1.98 inches below normal. Rain on the 21st did much good. Many fields of oats were killed by the December cold, and have been resown. Truck farmers are planting early peas about two weeks earlier than last year.—S. M. Benton.



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1902.

STATIONS	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Aiken	Aiken	565	1	44.3		73	27	17	13	32	1.35		1.00		5	22	3	6	ne.	C. F. McGahan.
Allendale	Barnwell	186	14	42.6	-1.2	62	30	24	16	22	1.75	-1.19	0.40		6				ne.	R. D. Peebles.
Anderson	Anderson	764	1	42.2	+0.8	60	8	18	*13	35	3.40	-2.09	1.30		9	16	6	9	ne.	R. B. Dean.
Augusta, Ga.	Richmond	134	31	44.4	-2.0	71	27	23	6	34	1.60	-2.59	0.52		7	14	5	12	w.	Weather Bureau.
Barksdale	Laurens	780	1	41.2		79	10	17	15	31	3.41		1.60		5	22	2	7	ne.	E. E. Putnam.
Batesburg	Lexington	656	14	42.8	-3.4	70	27	23	5	32	2.82	-1.12	1.10		7	19	3	9	e.	E. J. Hite.
Beaufort	Beaufort	28	16	49.4	-0.9	74	27	25	18	33	0.77	-1.98	0.64		3	15	13	3	nw.	S. M. Benton.
Bennettsville	Marlboro																			R. T. Barfield.
Blackville	Barnwell	296	14	44.2	-1.7	76	27	18	14	41	0.36	-3.14	0.15		4	14	12	5	ne.	G. D. C. Lange.
Bowman	Orangeburg	160	1	45.6		77	27	16	14	35	0.88		0.62		4	16	12	3	w.	B. O. Evans.
Cathoun Falls	Abbeville	508	9								3.49	-0.60	0.74		8	23	0	8	ne.	P. J. Pfeiffer.
Camden	Kershaw	222	36								1.97		1.13		10	13	5	13	n.	W. F. Hudson.
Charleston	Charleston	48	33	47.2	-3.0	73	31	25	13	28	0.45	-3.12	0.31		3	14	10	7	sw.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	38.4	-3.0	64	10	19	5	24	2.42	-1.98	0.82		11	11	8	12	nw.	Weather Bureau.
Cheraw (1)	Chesterfield	144	14	39.7	-2.9	71	10	16	6	40	2.73	-0.58	0.75		7	10	6	15	n.	W. R. Godfrey.
Cheraw (2)		144	9								2.87		0.99		8	13	7	11	nw.	Jno. H. Powe.
Clemson College	Oconee	850	11	38.4	-3.5	68	10	13	4	38	4.14	-0.49	1.16		9	9	13	9	ne.	Prof. C. C. Newman.
Columbia	Richland	351	15	43.1	-2.6	70	10	20	6	29	1.85	-1.95	1.21		9	11	8	12	sw.	Central Office.
Conway	Horry	25	11	43.0		80	27	18	14	41	1.16	-2.74	0.86		4	11	5	15	w.	P. Quattlebaum.
Darlington	Darlington	175	7	41.5		76	27	15	*4	39	2.21	-0.11	0.73		9	18	6	7	sw.	E. K. Melver.
Due West	Abbeville	710	1	41.0		66	10	19	*12	29	3.07		1.21		8	19	3	9	sw.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	9								1.12		0.96		7	14	9	8	w.	Miss Jerry Carter.
Effingham	Florence	106	10								0.97		0.35		5	13	5	13	nw.	A. J. Howard.
Florence	Florence	136	14	40.8	-2.8	73	27	20	5	36	1.30	-1.24	0.57		5	20	0	11	s.	H. K. Gilbert.
Gaffney	Cherokee	893	6	37.9		70	10	15	5	33	2.67	-0.81	0.62		9	13	5	13	w.	B. F. Camp.
Georgetown	Georgetown	12	9	49.1	+1.5	76	27	22	14	39	1.90	-1.97	1.90		1	29	1	1	sw.	W. T. Turbeville.
Gillisonville	Hampton	50	7	47.2	-0.9	80	27	18	*13	45	0.74	-1.37	0.57		2	18	6	7	w.	Sam P. Sauts.
Greenville	Greenville	989	10	36.8	-4.0	67	*9	12	5	38	3.02	-1.65	0.80	T.	9	16	1	14	nw.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	39.6	-2.0	67	9	17	5	36	3.05	-0.71	1.20		8	15	5	11	w.	M. M. Calhoun.
Heath Springs	Lancaster		1	40.6		62	27	24	5	21	3.27		1.01		9	16	6	9	ne.	J. A. Weaver.
Kingstree (1)	Williamsburg	54	14	41.9	-4.7	74	27	16	14	34	1.36	-1.94	0.61		8	12	8	11	n.	M. Cullen.
Kingstree (2)		54	8								1.39		0.71		8	12	8	11	ne.	W. H. Matthews.
Liberty	Pickens	900	8	40.0	-0.9	68	10	13	5	42	3.24	-2.01	1.28	T.	7	19	2	10	se.	Jno. T. Boggs.
Little Mountain	Newberry	711	9	41.8	-3.5	68	27	17	5	36	2.33	-1.10	0.85		11	10	12	9	sw.	John M. Sease, M. D.
Longshore	Newberry	530	9	40.6	-1.9	69	10	17	*6	32	4.18	-0.10	1.25		9	13	6	12	sw.	W. G. Peterson.
Lugoff	Kershaw	168	1	41.4		73	27	15	*5	40	1.95		1.16		10	13	9	9	w.	W. J. Burdell, M. D.
Pinopolis	Berkeley	51	9																	E. P. Ravenel.
Raleigh, N. C.	Wake	376	16	37.6	-3.0	67	10	17	6	28	2.39	-1.25	1.39		9	11	8	12	nw.	Weather Bureau.
St. Georges	Dorchester	109	14	43.4	-3.0	76	27	18	14	34	1.16	-1.99	0.30		7	16	6	9	sw.	W. B. Rayson.
St. Matthews	Orangeburg	269	14	42.8	-4.1	74	27	18	14	33	1.67	-1.06	0.65		10	16	4	11	sw.	J. S. Warnamaker.
St. Stephens	Berkeley	73	10								1.65		0.65		6	14	3	14	sw.	C. T. Shuler.
Saluda	Saluda	536	1																	W. A. Edwards, Jr.
Santee	Union	512	9	38.8	-3.7	70	10	13	*5	40	3.32	-0.29	1.24		8	10	10	11	e.	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	50.0	-1.0	78	27	26	13	30	0.30	-2.97	0.16		2	15	17	3	w.	Weather Bureau.
Severn	Aiken	482	1	43.2	-2.2	75	27	12	6	44	1.27	-2.43	1.10		7	10	11	10	n.	J. F. Lyles.
Smiths Mills	Williamsburg	62	7								1.76		1.12		5	16	6	9	nw.	H. van Keuren.
Society Hill	Darlington	192	11	41.0	-2.1	69	27	19	*4	33	2.47	-0.69	0.81		8	17	3	11	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	11	37.7	-4.4	68	10	15	5	32	3.06	-0.03	0.82	T.	7	20	2	9	sw.	F. P. Robinson.
Statesburg	Sumter	500	22	44.4	-0.8	74	27	20	5	33	1.23	-2.34	0.82		7	12	5	14	sw.	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	46.8	-1.2	78	27	19	*12	39	1.24	-2.54	0.98		5	15	10	6	ne.	Prof. Jno. Gadsden.
Sumter	Sumter	160	1	44.2		75	27	19	*5	34	0.60		0.40		6	10	10	11	sw.	Prof. W. A. Buckner.
Temperance	Marion	100	4	42.0	-2.8	76	27	11	4	38	2.05	-1.58	0.76		7	15	5	11	ne.	J. R. Reaves.
Trenton	Edgefield	620	9	42.6	-4.9	68	*1	16	13	34	1.40	-2.51	0.91		8	14	10	7	s.	C. A. Long.
Trials	Berkeley	85	16	44.2	-3.0	70	10	15	*13	41	1.40	-2.22	0.85		4	16	8	7	w.	Etsell Gaillard.
Walhalla	Oconee	1061	12	38.4	-3.7	69	*9	13	*4	37	3.65	-0.49	1.00		5	13	8	10	s.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	33	43.5	-4.0	75	27	21	5	33	1.39	-2.28	0.95		9	15	6	10	w.	Weather Bureau.
Windsor	Aiken		1																	B. B. Hightower.
Winnsboro	Fairfield	545	13	40.8	-2.4	70	27	18	*5	36	3.02	-0.15	1.20		6	21	4	6	w.	John W. Seigler.
Winthrop College	York	690	3	39.8	-3.4	68	10	18	*6	35	3.64	+0.13	0.99		9	15	7	9	sw.	Geo. B. Green.
Yemassee	Beaufort	23	7	43.8	-4.5	74	27	18	14	31	0.42	-1.88	0.16		4	15	6	10	ne.	R. G. Smith.
Yorkville	York	650	14	41.2	-1.9	70	10	15	5	32	3.50	-0.36	0.87		9	14	5	12	ne.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				42.4	-2.4	80	27	11	4	45	2.05	-1.43	1.90	T.	5	15	7	9	sw.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., and 9 and 2 p. m. observations.



## STATION.

[illegible]



TOTAL PRECIPITATION FOR JANUARY 1902.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JANUARY, 1902.

STATIONS.	Day of Month.																															Total.			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Aiken																T.				.15		1.50				.10				T.	T.	.10	1.35		
Allendale										.40			.30				T.			.30	.25	.25				.25							1.75		
Anderson																			.20	.30	.29		.15		.15					.19	.07	1.30	3.40		
Augusta, Ga.									.52							.07				.11	.90				.10					T.	.03	.06	.33	1.60	
Barksdale																					.78										.01	1.60	3.41		
Batesburg																	T.		.25	1.10	.85				.07				.15	.10		.30	2.82		
Beaufort																.01			.12	.64													0.77		
Bennettsville																																		0.36	
Blackville																	T.		.15		.05	.15								T.	T.	.01	T.	0.88	
Bowman																.04			.08	.62					T.						T.	T.	.14	3.49	
Calhoun Falls																			.45	.18	.24				.32				.35	.74	.62	.59	1.97		
Canden																	T.	T.	.20	.60	.53				.04	.03	.05		.03	.16	.03	.30	0.45		
Charleston		T.															.08		.12	.31										.02	T.			2.42	
Charlotte, N. C.																			.11	.82	T.				.06	.02	.01	.16	.20	.23	.11	.62	2.73		
Cheraw(1)																			.11	.24	.70				.09				T.	.72	.07	.75	2.87		
Cheraw(2)																			.16	.25	.74				.10				T.	.02	.68	.10	4.14		
Clemson College																T.			.19	.37	.22				.16				T.	.19	.50	.05	1.16	1.85	
Columbia																	T.		.15	1.21					.05	.01	.01		T.	.06	.02	.07	.27	1.16	
Conway																			.20	.86														2.21	
Darlington, near																	T.		.14	.04	.69				.01		T.	.02	.13	.04	.41	.73	3.07		
Due West																			.20	.56					.12									1.12	
Edisto																		.02	.08	.16	.80										.01	.03	.02	0.97	
Effingham																			.23	.10	.35								T.	T.	.02	.27	1.30		
Florence																			.15	.13		.57								.05		.40	2.67		
Gaffney																			.10	.23	.41	.32			.07					.17	.15	.30	1.90		
Georgetown																					1.90									T.				0.74	
Gillisonville																	T.		.17	.57														3.02	
Greenville																			.18	.58	.27			T.	.18	.03	T.	.42	.36	.20	.80	3.05			
Greenwood																			.18	.65	.18				.14				.17	.48	.05	1.20	3.27		
Heath Springs																			.01	1.00				1.00		.06	1.01	.06	.01	.06	.06		1.36		
Kingstree(1)																			.10	.05	.61				.12	.05				.01	.02	.40	1.39		
Kingstree(2)																			.11	.07	.64					.11	.05				.02	.01	.38	3.24	
Liberty																			.29	.40										.26	.71	.12	1.28	2.33	
Little Mountain																			.18	.85					.07	.02	.07	.33	.05	.05	.70	2.43			
Longshore																			.19	.70	.17				.09				T.	.18	.60	1.01	4.18		
Lugoff																			.18	1.16					.01	.02	.04	.03	.17	.03	.04	.27	1.95		
Pinopolis																																			0.74
Raleigh, N. C.												T.							.02	1.39					.06		.10	.06	.06	.09	.14	.47	2.39		
St. Georges																			.16	.30	.22					.08			T.	.12	T.	.03	.25	1.16	
St. Matthews																			.03	.13	.22	.65	.26			.08	.02		.02	.01	T.	.25	1.67		
St. Stephens																				.23	.05	.33								.35	.04		1.65		
Saluda																			.10	.16	.89														
Santuc																						.89												3.32	
Savannah, Ga.		T.																		.14	.16													0.30	
Seivern																					1.10				.07				.02	.01	.02	.05		1.27	
Smiths Mills																						.22	.90											1.76	
Society Hill																			.12	.20	.81				.03					.04	.35	.42	.50	2.47	
Spartanburg																				.17	.82					.15					.49	.52	.15	.76	3.06
Statesburg																.01			.15	.82					.02					.01		.03	.09	1.23	
Summerville																			.03	.15	.98						.01			T.	T.	.01	.01	.04	0.60
Sumter																				.13	.40														
Temperance																			.18	.76					.50	.01				.18	.03	.35	.54	2.05	
Trenton																				.10	.91					.10				.02	.03	.05	.13	0.60	
Trial																			.03	.42	.85									.05				1.40	
Walhalla																				.15	.40					.10								3.65	
Wilmington, N. C.																			.02	.03	.15													1.39	
Windsor																																			
Winnsboro																						1.20							.15	.12	.20	.45	.90	3.02	
Winthrop College																				.85															3.64
Yemassee		T.	T.																	.14	.10	.16												0.42	
Yorkville																				.20	.87					.12				T.	.27	.75	.30	.85	3.50

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1902.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

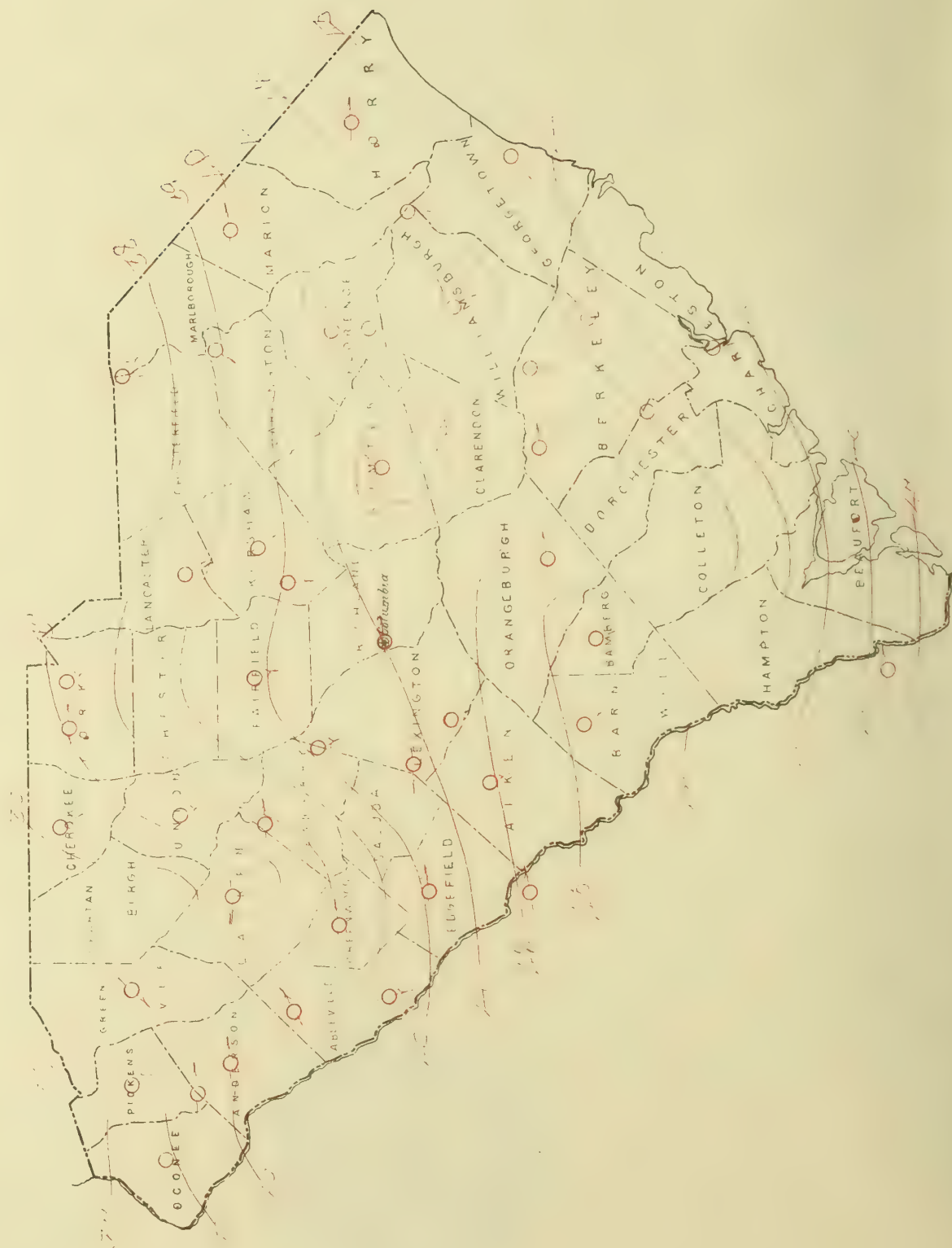


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR FEBRUARY, 1902.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. V. COLUMBIA, S. C., FEBRUARY, 1902. No. 2.

## CLIMATE AND CROPS.

Frequent frosts and prevailing low temperatures, with at times frozen and snow-covered ground, kept vegetation backward during the month so that no perceptible growth of grass or leaves was noted, an unusual condition.

Less than the usual amount of plowing was accomplished, this work having been impracticable, except on portions of about four days, over the western and northern sections of the State, largely owing to the unfitness of the ground which was kept too wet by frequent rains and snows. Over the southeastern portions, where less rain fell, about the usual amount of farm work incident to the season was done, and a start made at planting corn. Here, also, peach and plum trees began to blossom by the close of the month, while over the most of the State fruit buds showed but faint signs of swelling.

The cold weather was unfavorable for the germination of wheat and oats sown in January. Fall-sown oats were apparently further injured by winter-killing. Wheat maintained fairly good stands, during the month, but did not look vigorous at its close.

The drought along the southeastern coast was partially relieved and truck was greatly improved thereby, but it was kept backward by the prevailing low temperatures. The season as a whole is backward.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean for February, 1902, was  $40.6^{\circ}$ , which is  $5.4^{\circ}$  below normal. The highest local mean was  $46.4^{\circ}$  at Beaufort; the lowest  $35.4^{\circ}$  at Greenville. The highest maximum was  $77^{\circ}$  at Conway on the 22d and at St. George on the 27th; the lowest minimum was  $11^{\circ}$  at Barksdale on the 6th, making the State range  $66^{\circ}$ . The greatest local monthly range was  $57^{\circ}$  at Conway, the least  $38^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $50.1^{\circ}$ , of the daily minimums was  $31.1^{\circ}$ .

Ice.—The last freezing temperature, with ice, occurred on the southeastern coast on the 18th, and in the extreme northwestern portions on the 26th.

## Precipitation, in Inches.

The average precipitation was 5.89 inches, which is 1.20 above normal. The precipitation was quite evenly distributed, although slightly below normal along the southeastern coast. It consisted principally of rain, with, however, much snow and sleet over the western and northern portions. The heaviest rain occurred on the first two, and last two days. The greatest local amount was 10.51 at Barksdale, the least 2.38 at Yemassee. The greatest 24-hourly fall was 3.96 at Clemson College on the 27th. The average number of days with rain was 8, ranging from 3 at Georgetown to 12 at Conway.

Snow.—The northern half of the State had from 3 to 17 inches of snow, most of which fell on the 14-15-16th. This snow melted slowly, and some remained on the ground nearly a week. The southern limit of snowfall, of measurable amount, was about on a line running due east and west from central Edgefield to northern Horry counties, with limited areas south of this line that had small amounts. The greatest fall was 17 inches at Gaffney while all the northern border counties had from 10 to 15 inches. Trace of snow occurred as far eastward as Charleston on the 16th.

Sleet.—The following points reported sleet on the dates named: Aiken, Little Mountain, 15, 16; Anderson, Liberty, Longshore, Sumter, Spartanburg, Walhalla, 20; Barksdale, 18; Columbia, 15, 20; Darlington, Society Hill, 14; Due West, Effingham, Kingstree, Trenton, 15; Gaffney, 15, 18; Heath Springs, 20, 21; Lugoff, 16; Seivern, 14, 20, Sumter, 16, 17; Yorkville, 21, 22.

Hail.—Hail occurred as follows: Batesburg, Blackville, Due West, Greenville, Pinopolis, Summerville, Yorkville, 28; Charleston, 21; Darlington, Liberty, 27, 28; Santuc, 20, 27th.

Excessive precipitation.—Anderson, 27th, 3.70 in 24 hours; Barksdale, 27-28th, 3.24 in 24 hours; Calhoun Falls, 27-28th, 2.98 in 15 hours; Clemson College, 27-28th, 3.96 in 21 hours; Due West, 27-28th, 3.04 in 21 hours; Liberty, 27-28th, 3.10 in 14 hours; Spartanburg, 27-28th, 3.05 in 16 hours 30 minutes; Walhalla, 27-28th, 3.92 in 20 hours 30 minutes.

Weather.—The average number of clear days was 12, partly cloudy 6, cloudy 10.

Winds.—The prevailing direction of the wind was from the northwest at 21 stations, from the west at 15, from the north at 6, from the northeast at 4, from the southwest at 3, and from the east at 2.

High Winds.—Aiken, Summerville, 27, 28; Beaufort, 20; Blackville, 2, 28; Bowman, 2, 4, 17, 28; Charleston, 20, 28; Cheraw, Due West, Spartanburg, Sumter, 28; Columbia, 2, 4, 12, 17, 28; Heath Springs, 2, 5, 28; Liberty, Lugoff, 2, 4, 27, 28; Little Mountain, 27; Longshore, 2, 27, 28; Santuc, 2, 4, 28, Walhalla, 2, 20; Yorkville, 2, 5.

## MISCELLANEOUS PHENOMENA (with dates).

Lunar Corona.—Lugoff, 19, 23.

Earthquake.—Summerville, 4th at 11.25 p. m.



Solar Halos.—Charleston, 8, 10, 26, 27; Liberty, 24; Walhalla, 8.

Lunar Halos.—Charleston, 19, 23; Columbia, Little Mountain, 19; Santuc, 17; Walhalla, 13, 16.

Dense Fogs.—Aiken, Walhalla, 21; Charleston, 1, 21; Columbia, 1; Heath Springs, 24; Liberty, Longshore, Santuc, 22.

Thunderstorms.—Aiken, Pinopolis, Santuc, 24, 27, 28; Allendale, 24; Anderson, Little Mountain, Longshore, Society Hill, Spartanburg, Heath Springs, 27; Barksdale, 1, 28; Batesburg, Blackville, Cheraw, Due West, Sumter, Trial, Yorkville, 28; Beaufort, Gillisonville, 21, 24, 27, 28; Bowman, Lugoff, Winthrop College, 25, 28; Charleston, 15, 21, 24, 28; Clemson College, Darlington, Greenville, Seivern, Trenton, Walhalla, 27, 28; Liberty, 1, 27, 28; Summerville, 14, 21, 24, 28.

ERRATUM.—Monthly report for January, 1902, pages 5 and 8, total precipitation at Trial 1.40, should be 1.35.

#### REMARKS BY OBSERVERS.

Aiken.—This has been an extremely cold February.—C. F. McGahan, M. D.

Yorkville.—Abnormally cold month, and snowfall unusually heavy for February.—J. R. Schorb.

Barksdale.—The cold weather of this month did much damage to the oats crop; wheat is not so badly hurt.—E. E. Putnam.

Winthrop College.—Began snowing at 2.30 p. m. 14th, ended 9 a. m. 15th, with 12 inches. Two inches of snow on 16th.—Geo. B. Green.

Spartanburg.—From 2.30, 14th, to 7 a. m. 15th, 15 inches of snow fell that melted to 0.59 inch. Lightning, thunder, rain and strong winds on night of 27th.—F. P. Robinson.

Society Hill.—Oats are very slow in germinating owing to continued cold weather. The mean temperature was 5.6°, and precipitation 0.27 inch below normal.—Maj. J. J. Lucas.

Lugoff.—Sleet and snow on 15th measured one inch on a level, and melted down to 0.03 inch. Storm on 28th was severe, with high winds and thunder.—W. J. Burdell, M. D.

Blackville.—Weather favorable for seed germination; small grains improved. Monthly mean temperature 2.9° below normal; total precipitation 0.97 above normal.—G. D. C. Lange.

Bowman.—Another remarkably cold month. Little or nothing planted in gardens. Some spring oats are coming up. Farm work well advanced. Night of 27th quite stormy.—B. O. Evans.

Summerville.—Our wells at last supplied with water by rains of 24th and 27th. For two months previous, many have had to bring drinking water from Charleston.—Prof. Jno. Gadsden.

Greenville.—Fifteen inches of snow fell on the 14th. Thunder, lightning and rain on the 27th. Much electricity on the 28th, with light hail in the afternoon; thunder, rain and high temperature on 28th.—Mrs. S. A. Crittenden.

Batesburg.—Very little farm work has been done on account of cold and rainy weather. Almost continuous rains from 16th to close of month. Sleet on night of 15th, and snow on night of 16th, melted as they fell.—E. J. Hite.

Walhalla.—Storm of 20th gave snow and high winds during the a. m.; rain, sleet and mist in the p. m. The snowfall of the 14-15th was the heaviest on record at this place. Total precipitation 3.26 inches above normal.—S. M. Pagan.

Little Mountain.—No work was done in the fields during the month, the first half having been too cold and the latter half too wet. On most lands the oats crop is a total loss by freezing; wheat has a fair stand.—Jno. M. Sease, M. D.

Longshore.—February weather bad for farming interests. Fall sown oats were nearly all winter-killed; scarcely any spring oats have been sown. Wheat has poor stands. Little plowing was practicable. Farm laborers are scarce.—W. G. Peterson.

Santuc.—The precipitation for the month was heavy and of many varieties, including rain, snow, sleet and hail. There were a number of high winds, the storm of the 27-28th having been especially severe. On the 1-2d the rainfall was 3.69 inches in 36 hours, that washed lands badly.—E. W. Jeter.

Liberty.—Plowing was practicable on portions of only 4 days. Wheat sown in January is just coming up at the close of February. Very little oats sown as yet. Wheat sown before New Year is seriously winter-killed. Oats that were sown previous to January are about all killed.—Jno. T. Boggs.

Gillisonville.—The month was unpleasant. The first two decades were cold and dry, and unfavorable for germination of spring oats; the last decade was warm and wet; grain has started to grow; peach and plum trees were in bloom on 23d. Martins returned on the 28th. Spring plowing is well advanced.—Sam P. Saltus.

Trenton.—Mean temperature 6.5° below normal; precipitation 0.30 below. On account of frozen ground, rains and overflows, farmers are badly behind in plowing. Some spring oats being sown; those sown early in January have been killed; wheat sown in January has good stands, but early wheat was thinned by winter-killing.—C. A. Long.



CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY, 1902.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observer.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Aiken	Aiken	565	1	42.2		68	28	19	11	31	5.80		1.85	T.	8	20	1	7	nw.	C. F. McGahan.
Allendale	Barnwell	186	14	43.8	—3.5	70	28	25	*5	35	3.80	+0.31	1.20		7	15	3	10		R. D. Peoples.
Anderson	Anderson	764	1	39.2	—3.7	65	28	13	5	30	9.99	+4.05	3.55	6.2	7	16	5	7	w.	R. B. Dean.
Augusta, Ga.	Richmond	134	31	43.2	—6.0	70	27	23	11	31	6.02	+1.60	1.94		8	11	6	11	w.	Weather Bureau.
Barksdale	Laurens	780	1	36.0		59	26	11	*6	35	10.51		3.24	11.0	5	23	0	5	e.	E. E. Putnam.
Batesburg	Lexington	656	14	42.8	—2.6	71	28	21	5	30	7.76	+1.53	1.75	T.	10	14	6	8	e.	E. J. Hite.
Beaufort	Beaufort	28	16	46.4	—6.4	68	26	29	*11	29	4.07	+0.55	1.42	T.	8	11	9	8	nw.	S. M. Benton.
Bennettsville	Marlboro																			R. T. Barfield.
Blackville	Barnwell	296	14	42.8	—3.1	71	27	23	*5	32	5.96	+0.97	2.14		8	10	14	4	nw.	G. D. C. Lange.
Bowman	Orangeburg	160	1	43.5		71	28	21	5	39	4.75		1.35	T.	7	9	11	8	w.	B. O. Evans.
Calhoun Falls	Abbeville	508	9								7.20	+2.76	2.98		9	18	0	10	nw.	P. J. Pfeiffer.
Camden	Kershaw	222	36								4.67	+0.78	1.20	4.5	10	8	4	16	n.	W. F. Hudson.
Charleston	Charleston	48	33	44.4	—9.0	65	26	27	11	27	2.92	—0.40	0.93	T.	9	8	11	9	nw.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	36.6	—7.0	69	28	17	5	22	6.07	+1.51	1.44		13	11	6	11	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	144	14	36.9	—9.4	68	28	18	5	32	5.43	+1.11	1.52	7.0	9	3	12	13	n.	W. R. Godfrey.
Cheraw (2)		144	9								5.22	+0.45	1.43	5.5	9	9	8	11	nw.	Jno. H. Powe.
Clemson College	Oconee	850	11	38.4	—3.4	65	26	15	10	36	9.44	+3.99	3.96	12.0	7	18	4	6	w.	Prof. C. C. Newman.
Columbia	Richland	351	15	41.0	—7.1	72	28	21	5	26	5.12	+0.94	1.30	0.2	10	7	11	10	w.	Central Office.
Conway	Horry	25	11	42.2		77	22	20	11	39	5.81	+1.23	1.28	T.	12	12	1	15	w.	P. Quattlebaum.
Darlington	Darlington	175	7	40.2		70	*27	18	4	33	4.94	—0.02	1.32	1.4	10	13	4	11		E. R. McIver.
Doe West	Abbeville	740	1	39.5		65	28	18	5	26	9.44		3.04	6.8	8	22	2	4	sw.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	9								5.59	+0.88	1.35	0.1	10	10	5	13	nw.	Miss Jerry Carter.
Effingham	Florence	106	10								6.24	+1.62	1.87	0.5	11	11	6	11	nw.	A. J. Howard.
Florence	Florence	136	14	40.4	—6.6	71	28	23	5	25	5.49	+0.36	1.27		7	15	0	13	w.	H. K. Gilbert.
Gaffney	Cherokee	893	6	36.2		65	*27	16	5	32	7.73	+3.85	2.10	17.0	8				nw.	B. F. Camp.
Georgetown	Georgetown	12	9			65	26				4.65	+1.29	1.95		3	23	0	5	ne.	W. T. Turbeville.
Gillisonville	Hampton	50	7	45.2		72	28	22	5	40	3.68		1.40		8	10	6	12	n.	Sam P. Saltus.
Greenville	Greenville	989	10	35.4	—4.8	64	27	12	19	32	9.35	+4.47	3.15	15.2	6	10	6	12	ne.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	37.8	—4.8	66	28	18	5	32	8.14	+3.25	2.50	5.0	8	10	4	14	w.	M. M. Calhoun.
Heath Springs	Lancaster		1	38.2		70	28	24	*9	23	6.30		2.20	7.0	9	15	4	9	nw.	J. A. Weaver.
Kingstree (1)	Williamsburg	54	14	41.0	—5.6	70	27	19	5	34	6.18	+2.19	1.60	T.	9	9	6	13		M. Cullen.
Kingstree (2)		54	8								6.22	+2.10	1.60	T.	9	10	6	12	nw.	W. H. Matthews.
Liberty	Pickens	900	8	38.2	—3.0	62	*26	14	5	29	6.34	+0.91	3.10	14.0	7	14	5	8	uw.	Jno. T. Boggs.
Little Mountain	Newberry	711	9	40.2	—5.1	70	28	18	5	27	4.98	+0.22	2.04	3.0	11	5	13	10	nw.	John M. Sease, M. D.
Longshore	Newberry	530	9	39.6	—3.8	70	27	17	5	32	5.64	—0.08	2.21	5.0	8	8	9	11	w.	W. G. Peterson.
Longport	Kershaw	168	1	39.7		72	28	16	5	28	4.89	+0.19	1.19	1.0	10	11	5	12	nw.	W. J. Burdell, M. D.
Pinopolis	Berkeley	54	9	43.9	—3.8	68	27	26	5	28	5.57	+0.87	1.30		8	11	0	17	sw.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	16	36.0	—7.0	69	28	17	5	27	7.08	+2.80	1.53	17.9	11	11	7	10	nw.	Weather Bureau.
St. Georges	Dorchester	109	14	41.6	—5.3	77	27	23	5	36	5.88	+1.71	1.75	0.3	10	7	7	14		W. B. Rayson.
St. Matthews	Orangeburg	269	14	41.9	—4.5	71	27	22	11	32	7.35	+2.59	1.48	0.4	10	9	5	14		J. S. Warnamaker.
St. Stephens	Berkeley	73	10								4.95	+0.59	1.42	T.	9	10	5	13	n.	C. T. Shuler.
Saluda	Saluda	536	1																	W. A. Edwards, Jr.
Santee	Union	512	9	37.6	—4.6	71	28	16	*5	32	7.64	+2.60	2.12	9.5	10	8	12	8	nw.	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	47.1	—7.0	71	28	28	11	27	2.34	—0.94	0.70		9	10	10	8	w.	Weather Bureau.
Seivern	Aiken	482	1	41.2	—7.0	70	26	16	11	37	4.57	—0.40	1.90	T.	5	10	9	8	nw.	J. F. Lyles.
Smiths Mills	Williamsburg	62	7								5.55	+1.36	1.70	T.	9	12	5	11	n.	H. van Keuren.
Society Hill	Darlington	192	11	39.7	—5.5	69	28	21	4	28	4.93	—0.27	1.56	4.0	7	12	5	11	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	11	37.3	—6.9	65	*27	17	5	30	7.88	+2.44	3.05	15.0	7	12	6	10		F. P. Robinson.
Statesburg	Sumter	500	22	41.9	+7.2	72	28	22	5	25	4.15	+0.12	1.16	0.2	11	8	10	10	w.	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	44.4	—4.1	72	28	23	*4	33	4.65	—0.16	1.20	T.	8	12	6	10	nw.	Prof. Jno. Gadsden.
Sumter	Sumter	169	1	43.0		71	28	20	5	31	4.16		1.26		9	9	6	13	sw.	Prof. W. A. Buckner.
Temperance	Marion	100	4	41.2	—2.2	72	28	19	4	33	5.50	+0.47	1.33		8	14	5	9	w.	J. R. Reaves.
Trenton	Edgefield	620	9	41.1	—6.1	68	28	19	5	31	6.39	+0.30	1.61	T.	7	10	10	8	w.	C. A. Long.
Trial	Berkeley	85	16	41.6	—7.4	74	27	18	10	32	4.88	+0.78	1.35		8	10	7	11	w.	Etsell Gaillard.
Walhalla	Oconee	1061	12	38.0	—6.8	64	26	12	11	34	7.58	+3.26	3.92	12.1	7	15	4	9	nw.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	33	41.4	—8.0	68	27	23	14	27	3.29	—0.09	0.95		9	11	8	9	w.	Weather Bureau.
Windsor	Aiken		1																	B. B. Hightower.
Windsboro	Fairfield	545	13	39.9	—6.7	70	28	18	5	36	4.03	—0.58	1.45	5.0	5	17	1	10	nw.	John W. Seigler.
Winthrop College	York	690	3	37.2	—8.6	69	28	15	5	26	5.10	+0.41	1.54	14.0	8	12	8	8	nw.	Geo. B. Green.
Yemassee	Beaufort	23	7	43.0	—6.3	70	27	24	11	33	2.38	—2.08	1.16		7	10	6	12		R. G. Smith.
Yorkville	York	660	14	40.0	—5.0	68	28	17	5	31	7.60	+2.83	1.76	15.0	7	11	5	12	w.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				40.6	—5.4	77	*22	11	6	40	5.89	+1.20	3.96	3.8	8	12	6	10	nw.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. + Mean from 7 a. m. and 9 and 2 p. m. observations.



### STATIONS.

[illegible]



# TOTAL PRECIPITATION FOR FEBRUARY, 1902.



*Scale of shades, in inches.*





## DAILY PRECIPITATION FOR SOUTH CAROLINA, FEBRUARY, 1902.

STATIONS.	Day of Month.																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Aiken	1.85	.70													.70	.10					.50	.15				.80								
Allendale	.35														.45					.20	.68			.85	.07									
Anderson	2.48	1.79													.62					T.	.40			1.00										
Augusta, Ga.	1.94	.53													T.	.57	T.				.33	.26			.56	.76								
Barksdale	2.00	2.37													2.50									.40										
Batesburg	1.75	1.25													.76	.25				.50	.40	.50		.50	.10									
Beaufort	.07	.33													.75					.03	.15	.42		.90										
Bennettsville																				.24	.05	.07		.70	T.									
Blackville	2.14	1.02													.60		T.			.30	.45			T.	.80	.05	T.							
Bowman	1.20														.29					.16	.38	.18		.49	.11									
Calhoun Falls	.89	1.72													.49		T.	.07		.05	.24	.02		.74	.05									
Camden	.67	1.20													.93					.04	.44	.21		.09	.36									
Charleston	.04	.15													.22	1.44	.06	.03		.11	.35	.06		.01	.55									
Charlotte, N. C.	.93	1.20													.60		.30			.38	.08			1.21	.16									
Cheraw(1)	.31	1.52													.67	T.	.26			T.	.41	.06	T.		1.17	.13								
Cheraw(2)	.33	1.43																	.41	.04			.86											
Clemson College	2.67														1.45				.37	.09	.02		T.	1.25										
Columbia	1.30	.50													.65		.02	T.	T.		.19	1.28	.15	T.		.75	.10							
Conway	1.10	.75													.73					.23	.02			1.12	.12									
Darlington, near	1.00														.90					.13	.52			.68										
Due West	2.54	1.44													.45		.18			.35	.24	.10		.98	.02									
Edisto	.82	1.10													.74	.05				.30	.02			1.00	.10									
Effingham	1.03	.93													.60					.50	1.10			1.10	.12									
Florence	.80														1.70	.22	.25						.14	.84	T.									
Gaffney	.50	2.10													1.95					1.20			T.	1.50										
Georgetown															.42					.19	.38			.70	.03									
Gillisonville	.50														1.50						.02			.32										
Greenville	1.95	2.41													.55					.15	.40	.42		.75										
Greenwood	1.12	2.50													.55	.15				1.00	.40			.40	.30									
Heath Springs	2.20														.64	T.				.38	.12	.40		.99	.06									
Kingstree(1)	1.60	.58													.64	T.				.36	.12	.42		T.	.55									
Kingstree(2)	1.60	.58													1.15					.42	T.			T.	.55									
Liberty	1.72	1.10													.60	.09				.44	.16	.02		.03	.56									
Little Mountain	1.12	.92													.73	T.	T.			.02	.33	.32		.47	.03									
Longshore	2.21														.60	.03	T.			.23	.14			.04	.93									
Lugoff	1.19	.61													.50					.47	.38	.42		1.30										
Pinopolis	.50														1.13	.46	.56			.02	.77	T.		.02	.87									
Raleigh, N. C.	.46	1.53													.25	.30	.30			.30	.15	.18		.50	.50									
St. Georges	1.15	.80													.40		.50			.50	.75	.12		1.00	.50									
St. Matthews	1.00	1.10													.42					.25	.13	.65	T.		.89	.03								
St. Stephens	.65	.51																																
Saluda															.10	.82				.14	.45	.02		T.	.86									
Santuc	2.12	1.57													.30	.16				.16	.07	.13		.49	.26									
Savannah, Ga.	.03	.20													.67						.42			.83										
Seivern	1.90														.60					.90	.30	.10		1.08										
Smiths Mills	.60	1.10													.20	.20				.93	.04													
Society Hill	1.56															.59				.52	.11			.96										
Spartanburg	.70	1.95													.78	.01	.01			.04	.12			.07	.67									
Statesburg															.71					.18	.10	.87		.77										
Summerville	.44														.66		.05			.31				.01	.57	.01								
Sumter	1.26	.46														.55				.36	.24			1.32	.30									
Temperance	1.12														.63	T.				.50	.27			T.	.82									
Trenton	1.61	.95													.05					.88	.64	.03		.61	.06									
Trial		1.20													1.46					.45	T.	T.		.65										
Walhalla	1.10														.46	.05	T.			.08	.34	.01		T.	.40	T.								
Wilmington, N. C.	.89	.11																																
Windsor															.50						.25			.73										
Winnboro	1.45														.30	.90	.20				.10	.04			.75									
Winthrop College	1.54														.30	T.					T.	.09	.03		.48									
Yemassee	.03	.29													.30	1.20					.12	.40			T.	.97								
Yorkville	1.44	1.76																																

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MARCH, 1902.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

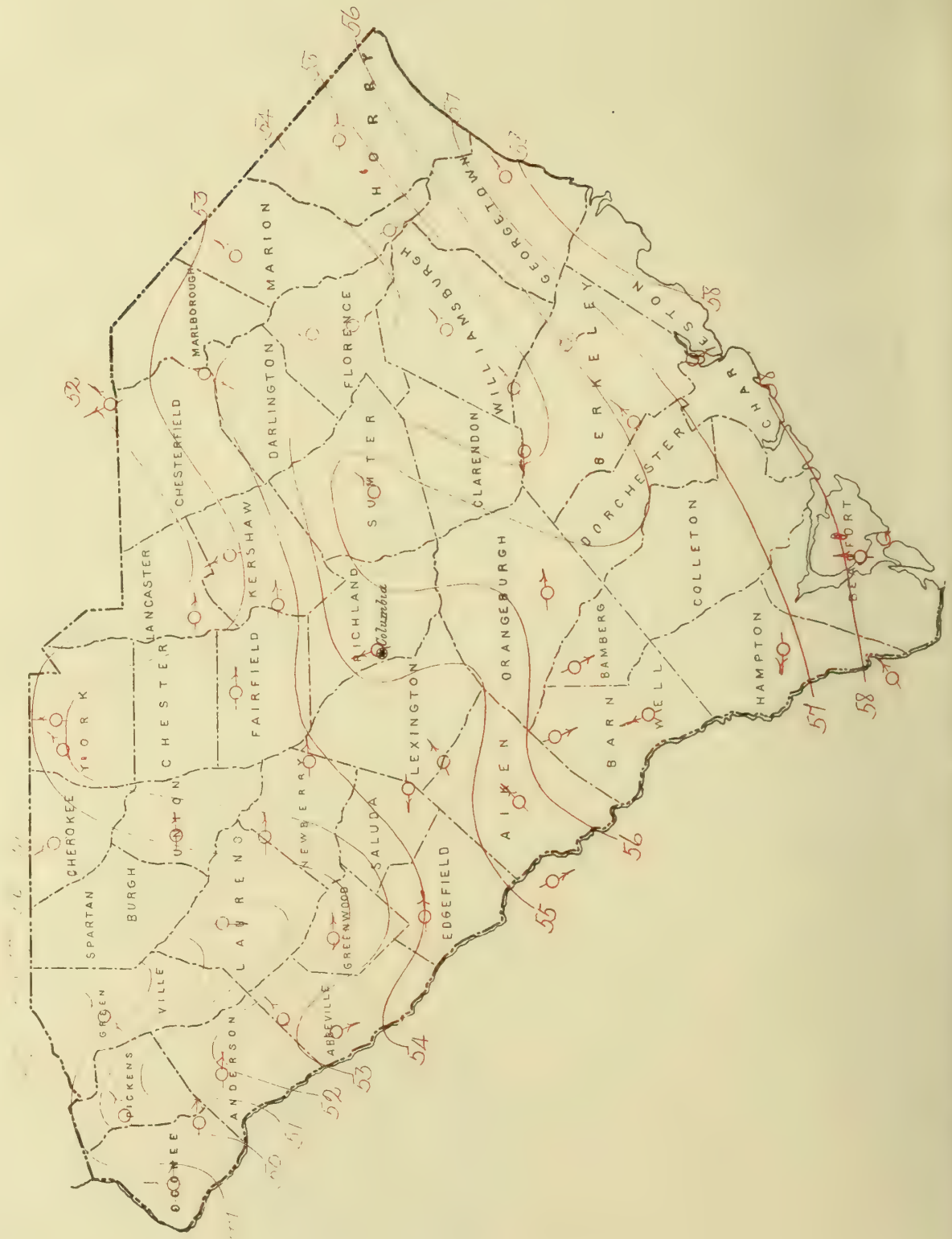


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MARCH, 1902.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,

COLUMBIA, S. C.

VOL. V.

COLUMBIA, S. C., MARCH, 1902.

No. 3.

## PROGRESS OF FARMWORK.

The weather conditions during March were variable, as is characteristic of the month, with alternating periods of moderately warm and decidedly cool spells. The rainfall was slightly excessive over the western portions and about normal over the central and eastern. The mean of the former and the average of the latter for the State was about normal. Freezing temperature prevailed throughout the State on the 19th, that did little damage to vegetation and to fruit buds owing to the backward condition of the season. Injury was confined principally to the coast truck regions. A heavy rainfall on the 15-16th relieved the long-existing drought in the southeastern counties.

The low temperatures of January and February place the season about ten days later than the average, and during March caused slow progress in farming operations especially in the western counties where not all lands have been prepared for corn and only a little was planted, but in the eastern portions the conditions were more favorable and upland corn planting is well underway, while some early planted is up.

Cotton planting was generally confined to the extreme southeastern portion, principally Beaufort county. However, the preparation of lands is well advanced and planting will be general by April 10th, except in the western portions where it will be delayed owing to the cold condition of the soil, unfavorable for germination.

Tobacco plants, in beds, are small for the season, but are plentiful and healthy.

Rice planting was delayed in the Georgetown districts by freshets, but good progress has been made in Colleton County where half of the early crop is planted, while in the other districts average progress was made.

Copious rainfall over the coast truck regions made the early vegetable crop quite promising, but the freeze on the 19th did considerable damage to strawberries in bloom, and all other tender vegetation. Truck seeding was about finished by the end of the month, while asparagus, cabbage and lettuce were being shipped.

Fully two-thirds of the fall-sown oats were winter-killed, but the portion of the crop that escaped looks well. The

scarcity and high price of seed oats prevented the usual amount of spring sowing, but the spring oats crop looks promising.

Wheat was but slightly injured by winter-killing, but the stands are as yet small and scattered, and did not grow or stool during March. Rye and barley are also small and late. Pasturage was backward.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean for March, 1902, was 54.0°, which is 0.5° below normal. The highest local mean was 58.9° at Georgetown, the lowest 47.6° at Greenville. The highest temperature was 86° at Gillisonville on the 30th; the lowest 19° at Barksdale, Greenville, Heath Springs and Walhalla on the 4-6-18-19th, respectively, making the State range 67°. The greatest local monthly range was 65° at Gillisonville; the least 47° at Allendale. The mean of the daily maximum temperatures was 65.1°; of the daily minimum temperatures 43.0°.

Frost.—Frosts were frequent during the first two decades. Killing frost with freezing temperatures, thin ice and a slight ground freeze occurred on the 19th, over the whole State. The temperature fell but little below the freezing point along the coast where vegetation was far enough advanced to have been damaged to any considerable extent. No frosts occurred after the 23d.

Precipitation, in Inches.

The average precipitation was 4.08 inches, which is 0.32 above normal. The rainfall was well distributed, and over small areas only was it excessive, and along the coast the excessive rainfall was very beneficial. The greatest local amount was 7.19 at Trenton; the least 1.90 at Darlington. The greatest 24-hourly fall was 2.50 at Georgetown on the 16th. The average number of days with rain was 10, ranging from 2 at Florence to 14 at Blackville.

Hail (places and dates).—Barksdale, Pinopolis, 1; Batesburg, Walhalla, 29; Temperance, 16; Winthrop College, 1, 29.

Weather.—The average number of clear days was 14, partly cloudy 7, and cloudy 10.

Winds.—The prevailing direction of the wind was from the southwest at 13 stations, west 12, northwest 9, south 6, southeast 5, east 3, and from the north and northeast at 2 each.

High Winds.—Beaufort, 28; Bowman, 5; Charleston, 29; Columbia, 2, 5, 13, 15, 17, 28, 29, 30, 31; Due West, 5, 16, 29, 30, 31; Gaffney, Society Hill, 30, 31; Gillisonville, 1, 5, 28, 29, 31; Heath Springs, 2, 5, 13, 30; Liberty, 2, 5, 17, 29, 30, 31; Little Mountain, 31; Longshore, 2, 5, 17, 28, 30, 31; Lugoff, 2, 5, 18, 19, 28, 30, 31; Summerville, 5, 28, 30; Trial, 18, 30, 31; Walhalla, 5, 16, 30, 31; Yorkville, 2, 5, 30, 31.

## ERRATA.

February, 1902, report: Total precipitation at Liberty, on pages 5 and 8, 6.34 should be 8.04; Liberty, page 5, total snowfall 14.0 should be 15.0.



## REMARKS BY OBSERVERS.

Batesburg.—Weather was unusually cool. Little or no planting was done, except gardens.—E. J. Hite.

Little Mountain.—Small grain made great improvement. Much of the corn land is ready to plant.—Jno. M. Sease, M. D.

Bowman.—Farm work well advanced, with some corn up, but gardens backward. Cold weather damaged fruit slightly.—B. O. Evans.

Barksdale.—Some corn and cane were planted. Preparation of lands made rapid progress during the last two weeks.—E. E. Putnam.

Lugoff.—The frost from 18th to 21st did not kill peaches. Much farm work has been done. A good deal of corn planted. Spring grain looks well.—W. J. Burdell, M. D.

Society Hill.—Fruit uninjured. Oats that survived the December cold look well. Late planted oats are small but promising. Wheat crop good.—Maj. J. J. Lucas.

Statesburg.—Early vegetation and some peach trees in full bloom were more or less seriously injured on the 19th. A heavy thunderstorm on the 29th.—W. W. Anderson, M. D.

Gillisonville.—Month cold and wet, with raw winds. Field work well advanced, and bulk of corn crop planted; germination very slow. Fruit seems to be uninjured.—Sam P. Saltus.

Liberty.—The ground was dry enough to work on very few days, and preparation of lands backward. Fruit not yet in full bloom. Grain crops small. Gardening just begun.—Jno. T. Boggs.

Allendale.—Favorable weather during the entire month for farming operations. Month closed with a cold wave, but with little resulting damage. Precipitation about normal.—R. D. Peebles.

Beaufort.—Temperature about normal; precipitation 1.25 inches in excess, but this was not too much rainfall for growing crops. Plowing and planting were somewhat delayed by rain.—S. M. Benton.

Santuc.—Much farm work was done, but wet soil interfered with plowing. Vegetation grew rapidly toward the close of the month. Fruit trees blooming freely. Small grain made good growth.—E. W. Jeter.

Trenton.—Heavy thunderstorm on the 29th, with excessive

rains, but doing only slight damage. Precipitation 3.95 inches above normal, and 2.14 more than the average for the first three months of the year.—C. A. Long.

Longshore.—Plowing began on the 10th. At 7 p. m. of 12th, a bright red spot appeared on the clouds about 20° above the NW. horizon. It would grow dim and then flash up brightly. Probably an aurora. Peach and plum trees began to bloom on 19th.—W. G. Peterson.

## MISCELLANEOUS PHENOMENA (with dates).

Aurora.—Longshore, 12.

Solar Corona.—Beaufort, 26.

Lunar Corona.—Lugoff, 23, 25.

Earthquake.—Summerville, 17th, 8.45 p. m.; 26th, 4.20 a. m.

Lunar Halo.—Charleston, Gillisonville, 23, 24; Little Mountain, 16; Statesville, 23.

Solar Halos.—Charleston, 14, 16, 20, 21, 23, 26; Sumter, 7; Statesburg, 21; Trial, 31.

Fogs, Dense.—Anderson, Statesburg, 9, 25; Beaufort, 10; Columbia, 9, 15, 25; Gillisonville, 7, 8, 10, 21, 22; Greenville, Liberty, 9, 25, 27, 29; Heath Springs, 15; Little Mountain, 25; Longshore, 8, 9, 25; Lugoff, 15, 16; Seivern, 8, 9, 10, 15, 24; Yorkville, 9.

Thunderstorms.—Aiken, Anderson, Batesburg, Due West, Gaffney, 29th; Barksdale, 1; Beaufort, 15, 16, 29; Blackville, 17, 29; Bowman, 15; Charleston, Winthrop College, 1, 16, 29; Cheraw, Columbia, Statesburg, Trial, 16, 29; Darlington, Little Mountain, 28; Gillisonville, 1, 16; Greenville, 12, 28; Liberty, 1, 16, 28, 29; Longshore, 12, 16, 28; Pinopolis, 1, 27, 28; Society Hill, 16, 28; Sumter, 16; Trenton, 12, 29; Lugoff, Yorkville, 1, 29; Walhalla, 1, 11, 15.

The following fruits were in full bloom on the dates given at Beaufort, peaches on the 8th, pear and plum trees on the 12th, figs began putting out on the 20th, blackberries bloomed on the 22d, dogwood on the 20th, and while the latter is not a fruit, yet when dogwood trees are in full bloom it is taken as an indication, by many farmers that the season has come to plant corn. At Gillisonville peach trees began blooming in February. At Columbia early peach trees were in full bloom on the 18th of March and pears by the 28th.



CLIMATOLOGICAL DATA FOR THE MONTH OF MARCH, 1902.

STATIONS.	Counties.	Elevation—feet.	Length of record— years.	Temperature in degrees Fahrenheit.						Precipitation in inches.				Sky.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall, unmelted.	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.	Prevailing direction of wind.
Aiken	Aiken	565	1	55.9		79	30	25	19	40	5.32		1.50		7	20	9	2	sw.	C. F. McGahan.
Allendale	Barnwell	186	14	56.7	+0.6	76	*29	29	19	33	4.28	+0.97	1.52		8	16	4	11	se.	R. D. Peeples.
Anderson	Anderson	764	1	52.3	+1.4	76	29	25	*18	37	4.93	-0.15	1.30		7	15	6	10	w.	R. B. Dean.
Augusta, Ga.	Richmond	134	31	55.2	-1.0	79	30	29	19	35	5.40	+0.49	1.73		12	13	7	11	nw.	Weather Bureau.
Barksdale	Laurens	780	1	51.0		75	29	19	4	43	4.38		1.55		5	21	2	8	n.	E. E. Putnam.
Batesburg	Lexington	656	14	53.4	-1.5	79	30	24	19	37	6.62	+2.62	2.00		11	17	7	7	se.	E. J. Hite.
Beaufort	Beaufort	28	16	58.1	-0.4	80	30	31	19	32	4.34	+1.25	1.57		10	14	11	6	s.	S. M. Benton.
Bennettsville	Marlboro		1																	R. T. Barfield.
Blackville	Burnwell	296	14	56.2	-0.4	84	30	27	19	38	4.98	+1.41	1.52		14	14	12	5	nw.	G. D. C. Lange.
Bowman	Orangeburg	160	1	56.8		82	30	27	10	42	3.38		1.35		7	16	11	4	w.	B. O. Evans.
Calhoun Falls	Abbeville	508	9								6.20	+1.73	2.20		9	22	0	9	nw.	P. J. Pfeiffer.
Camden	Kershaw	222	36								3.69	+0.22	1.03		10	15	4	12	n.	W. F. Hudson.
Charleston	Charleston	48	33	57.3	0	81	30	30	19	23	4.36	+0.61	2.08		7	12	11	8	nw.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	51.7	+2.0	75	30	21	19	33	3.54	-1.20	0.88		13	10	11	10	sw.	Weather Bureau.
Cheraw (1)	Chesterfield	144	14	52.4	-0.6	80	31	21	7	40	2.84	-0.89	0.93		10	8	15	5	se.	W. R. Godfrey.
Cheraw (2)		144	9								2.62	-0.91	0.87		11	15	5	11	sw.	Jno. H. Powe.
Clemson College(a)	Oconee	850	11	49.2	-3.5	76	29	22	18	43	4.70	+0.23	1.95		8	15	5	10	w.	Prof. C. C. Newman.
Columbia	Richland	351	15	54.6	+0.3	79	30	25	19	33	4.16	-0.37	1.96		11	9	12	10	se.	Central Office.
Conway	Horry	25	11	55.0		82	30	25	19	38	3.25	-0.32	0.85		8	13	6	12	w.	P. Quattlebaum.
Darlington	Darlington	175	7	54.0		81	13	22	18	43	1.90	-1.30	0.99		9	16	6	9		E. R. Melver.
Due West	Abbeville	740	1	53.3		75	29	25	19	32	5.52		1.44		9	18	7	6	sw.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	9								3.38	-0.20	1.05		13	16	2	13	nw.	Miss Jerry Carter.
Edlingham	Florence	106	10								3.58	+0.66	0.98		8	16	4	11	nw.	A. J. Howard.
Florence	Florence	136	14	53.7	-1.4	78	14	24	19	36	1.98	-0.92	1.05		2	19	1	11	s.	H. K. Gilbert.
Gaffney	Cherokee	893	6	51.3		78	23	22	19	42	5.24	-0.12	1.22		11	14	7	10	se.	B. F. Camp.
Georgetown	Georgetown	12	9	58.9	+1.6	83	30	26	19	32	6.00	+2.93	2.50		4	26	2	3	sw.	W. T. Turbeville.
Gillisonville (a)	Hampton	50	7	56.8	-2.5	86	30	21	20	50	4.71	+1.47	2.12		13	13	5	12	e.	Sam P. Saltus.
Greenville	Greenville	989	10	47.6	-2.1	75	31	19	*18	42	4.52	-0.70	1.40		9	17	1	13	ne.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	51.8	-2.9	76	30	23	19	37	5.59	+1.28	1.72		10	15	1	15	w.	M. M. Calhoun.
Heath Springs	Lancaster		1	51.5		74	12	19	6	32	3.12		1.00		9	17	8	6	w.	J. A. Weaver.
Kingstree (1)	Williamsburg	54	14	54.1	-2.3	80	31	24	19	35	2.58	-0.29	0.72		11	16	6	9		M. Cullen.
Kingstree (2)		54	8								2.60	-0.24	0.72		11	16	4	11	sw.	W. H. Matthews.
Liberty	Pickens	900	8	51.5	-0.1	76	29	23	*18	38	4.38	-0.68	1.45		8	13	6	12	sw.	Jno. T. Boggs.
Little Mountain	Newberry	711	9	54.0	-1.3	81	30	23	19	34	4.43	+0.87	1.60		13	9	13	9	w.	John M. Sease, M. D.
Longshore	Newberry	530	9	53.4	0	79	28	22	19	41	4.67	+0.49	1.34		11	11	9	11	w.	W. G. Peterson.
Lugoff	Kershaw	168	1	54.6		81	30	23	19	39	3.79		1.22		11	15	4	12	se.	W. J. Burdell, M. D.
Pinopolis	Berkeley	54	9	57.1	+1.5	78	30	30	19	39	3.50	+0.44	1.53		9	14	5	13	nw.	E. P. Ravenel.
Raleigh, N. C.	Wake	376	16	50.9	+1.0	78	30	20	19	33	2.14	-1.94	0.47	0.3	14	12	8	11	nw.	Weather Bureau.
St. Georges	Dorchester	199	14	55.5	-1.2	81	31	26	20	32	3.13	-0.16	0.70		12	14	4	13		W. B. Rayson.
St. Matthews	Orangeburg	269	14	55.2	-0.1	79	31	27	20	31	4.51	+1.32	1.45		12	13	3	15		J. S. Warnamaker.
St. Stephens	Berkeley	73	10								3.27	+0.19	0.90		9	14	6	11	sw.	C. T. Shuler.
Saluda	Saluda	536	1																	W. A. Edwards, Jr.
Santee	Union	512	9	52.2	-0.4	78	20	20	19	50	3.65	-0.80	1.23		11	8	14	9	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	58.7	0	83	30	34	19	24	5.22	+1.55	2.22		13	12	13	6	sw.	Weather Bureau.
Severn	Aiken	482	1	54.7	-0.9	80	29	22	7	44	6.01	+2.82	1.92		8	11	11	9	sw.	J. F. Lyles.
Smiths Mills	Williamsburg	62	7								4.83	+1.37	1.40		7	15	5	11	nw.	H. van Keuren.
Society Hill	Darlington	192	11	54.0	-1.1	80	30	24	18	34	2.43	-0.92	0.81		9	13	10	8	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	11	50.6	-0.4	77	31	21	19	42	5.02	+0.81	1.13		10	16	3	10		F. P. Robinson.
Statesburg	Sumter	500	22	56.6	+2.5	83	30	24	19	31	3.21	-0.53	1.12		9	11	11	9	w.	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	56.8	-0.3	84	30	28	*18	36	3.29	+0.60	1.42		8	18	8	5	sw.	Prof. Jno. Gadsden.
Sumter	Sumter	169	1	56.4		79	30	25	19	39	2.90		1.10		10	13	8	9	sw.	Prof. W. A. Buckner.
Temperance	Marion	100	4	53.4	+1.2	80	30	25	18	40	3.13	+0.34	1.20		6	19	7	5	sw.	J. R. Reaves.
Trenton	Edgefield	620	9	54.1	-3.1	78	30	25	19	31	7.19	+3.95	2.28		10	13	13	5	w.	C. A. Long.
Tryon	Berkeley	85	16	55.9		77	*30	18	19	41	3.20	-0.42	0.91		9	11	12	8	e.	Etsell Gaillard.
Walhalla	Oconee	1061	12	48.9	-1.1	77	29	19	18	39	4.75	-2.03	2.30	T.	7	18	2	11	s.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	33	54.9	+1.0	80	30	24	19	27	3.61	+0.03	1.35		13	12	10	9	s.	Weather Bureau.
Windsboro	Fairfield	545	13	53.6	+1.5	78	29	22	19	41	2.83	-0.78	1.16		7	21	5	5	w.	John W. Seigler.
Winthrop College	York	690	3	55.1	+0.5	76	*29	20	19	34	4.12	-0.14	1.16		10	14	10	7	s.	Geo. B. Green.
Yemassee	Beaufort	23	7	56.4	-2.2	84	31	30	19	34	3.93	+0.88	1.52		10	14	6	11		R. G. Smith.
Yorkville	York	680	14	54.4	+1.3	79	30	23	19	38	4.12	-0.78	1.20		9	9	13	9	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				54.0	-0.5	86	30	19	*4	50	4.08	+0.32	2.50		10	14	7	10	sw.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m. and 9 and 2 p. m. observations.  
‡ Minimum thermometer alcohol column broken. § Probably too low.

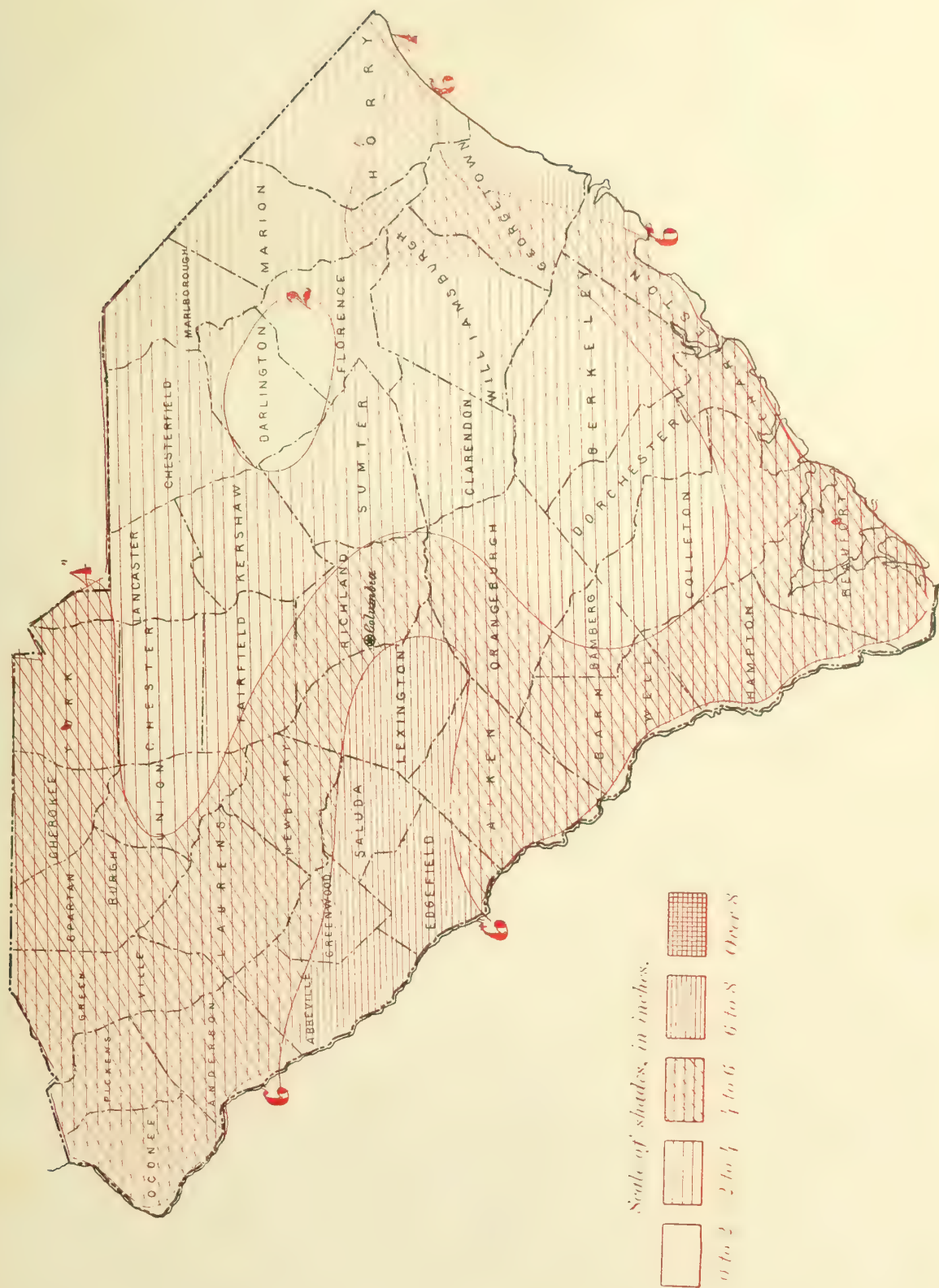


STATIONS.

STATIONS.		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		Monthly mean.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	



# TOTAL PRECIPITATION FOR MARCH, 1902.



Scale of shades, in inches.

[White box]	[Horizontal lines]	[Diagonal lines \]	[Cross-hatch]
0 to 2	2 to 4	4 to 6	6 to 8
			Over 8



## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

MARCH, 1902.

## DAILY PRECIPITATION FOR SOUTH CAROLINA, MARCH, 1902.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken	.60	.45						T.	.25						1.00	1.50					T.	T.		.12			T.		1.40		5.32		
Allendale	.19			.15					.25					.40		.30	.24	1.52				T.	T.		.08			T.		.74		4.28	
Anderson	.64							.05							.05	1.80	1.00				T.	T.		.13			T.	.04	.08	1.39		4.93	
Augusta, Ga.	.45	.34			.12				.05							T.	1.55										T.		.10		5.40		
Barksdale	.08	1.00							.30							.45	.52	1.50				T.	.30			T.	.15	.20	2.00	.20	4.38		
Batesburg		.75			.25				.01						T.	.08	1.57	.74	.03					.45			T.	.05	.56		6.02		
Beaufort	.75				.10																										4.34		
Bennettsville																.72	.07	1.52				.02		.05	.01		.03	.05	1.00	.68	4.98		
Blackville	.10	.55		.15				.03							.80	1.35					T.		.08						.10	.80	3.38		
Bowman	.15							.10							.67		.20	.97	.39								.22	.30	2.20		6.20		
Calhoun Falls		.97						.28							T.	T.	.34	.26	.87				.03	T.				T.	T.	.19	.05	3.69	
Camden	.07	.70		.15				.19						T.	T.	.87	2.08	T.				T.	.05					T.	T.	.19		4.36	
Charleston	.01	1.07		.09				T.					.02	.16		.36	.39	.01				.03					.12	.17	.88		3.54		
Charlotte, N. C.	.16	.80		.24				.20								.03	.15	.89				.06							.93	.93	.08	2.84	
Cheraw(1)	.05	.30		.18				.17						.01		.02	.15	.73	T.			.04	T.					T.	.87	.10	2.62		
Cheraw(2)	.05	.31		.18				.16						T.	.57		.03	1.10	.25			.07						T.	.95		4.70		
Clemson College	.45	T.						.28					T.	.57		.64	.54				.01	.06						T.	.01	1.96	4.16		
Columbia	.45	.29		.02				.14								.38	T.											T.	.30	1.15	.85	3.25	
Conway	.40	.30		.12				.20							.30	.15					.02	T.						T.	.99	.02	1.90		
Darlington, near	.11			.12				.19						.48		.53	1.12										.18	.30	1.44		5.55		
Due West	.21	.96		T.				.30						T.		1.05	.25	.55				.08	T.	.08	.04			.04	.14	.35	3.38		
Edisto	.08	.65		.05				.02								.90	.05	.98												.90	.10	3.58	
Efingham		.15		.40				.10										.93												.10	1.05	1.90	
Florence																						.02			.02			.45	1.22		5.2		
Gaffney	.10	.76		.10						.45					.60		T.	.95	.57										.75		6.00		
Georgetown	1.25							T.								.12	.12	.94				.05	.02		.40		.05	.01	.20		4.7		
Gillisonville	.42			.30				.03					.05			.09	1.40	.10										.35	1.20		4.5		
Greenville	.14	.50						.33						.41		.40	.70	.90				.08						.15	1.72		5.5		
Greenwood		1.10		.12				.17						.25		.40	.40					T.	.02				.10	.10	1.00		3.1		
Heath Springs	.90			.20				.20								.20	.40					.06		.01						.10	.06	2.5	
Kingstree(1)	.04	.45		.12				.10						T.		.42	.50	.72	T.			.06	T.		.02			T.	.45	.60	4.3		
Kingstree(2)	.05	.46		.10				.11								.20	1.10					.02						T.	.18	.34	4.4		
Liberty	.75			T.				.11					.15		.03	.58	.75					.08	.10		.01			T.	.18	.34	4.6		
Little Mountain	.60	.20		.10				.17					.06		.40	.60	.84	T.				.06						T.	.02	1.22		3.7	
Longshore	.94			.13				.15					.02			.60	.84	T.				.06						T.	.02	1.22		3.5	
Lugoff	.29	.46		.10				.17	.01				.02			.50	.35	1.53										T.	.02	1.22		3.5	
Pinopolis	.35			.16				.03								.50	.35	1.53					.02			.01	.01	.13	.47		2.1		
Raleigh, N. C.	.06	.19		.39				.15	.01				T.			.05	.46	.01	.18			.02				.15	.02			.10	.40	3.1	
St. Georges	.52	.18		.04				.02						T.		.60	.20	.70				.15		.09	.04				1.00	.36	4.5		
St. Matthews	.25	.35		.06				.01								.60	.30	.90											.04	.17	.42	3.2	
St. Stephens	.34	.39		.20																												3.6	
Saluda														T.	.29		.47	.76				.03						T.	.13	.10	.82	5.5	
Santuc	.20	.59		.02				.24						T.	.01	.30	2.22	.38	.02			.04	.01		.95	T.		.11	T.	.62		6.0	
Savannah, Ga.	.03	.49		.04				T.	T.							.80	.96					.06						T.	.15	T.	1.92	4.8	
Seivern	1.90			.12				.10								.25	.20	1.18										T.	.78	.01	2.4		
Smiths Mills	.90	.30		.60												.12	.09	.81				.02						T.	.08	1.03	5.0		
Society Hill	.28			.19				.13								.58			.32				.08						T.	.05	1.12	3.2	
Spartanburg	.10	.80		.05				.12	.44							.53	.88					.02		.05				T.	.01	.07		3.2	
Statesburg	.29	.43		.21				T.							1.18	.05	1.42					.02			.05				T.	.01	1.10	2.6	
Summerville	.02	.12		.04				T.								.36	1.08	.02										T.	.13		3.0		
Sumter	T.			.24				.22						T.		.24	1.10	1.20				.04						T.	.11	.09	2.28	7.0	
Temperance	.26			.07				.12								.16	1.59					.05	T.					T.	.03	.91		3.0	
Trenton	1.68		.04					.15								.28	.60	.85													.20	4.0	
Trial	.30			T.									.70			1.45												T.	.05	1.26		3.0	
Walhalla	.30			.12				.01	.18					.01		.13	1.35	.02	.02			.03						T.	.18	1.16		2.0	
Wilmington, N. C.	.04	.39						.21							.30	.20	.60					.18						T.	.16	.14	1.16	4.0	
Winnboro				.07				.31						T.	.28		.47	.72						.32	.04	.10				.01		.52	3.0
Winthrop College	.16	.65		T.										T.		1.52	.76	.58	T.									T.	.20	.20	1.20	4.0	
Yemassee	.04							.38						T.	.34		.54																
Yorkville	.20	.90		.16																													

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



101-83  
101-101  
U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR APRIL, 1902.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

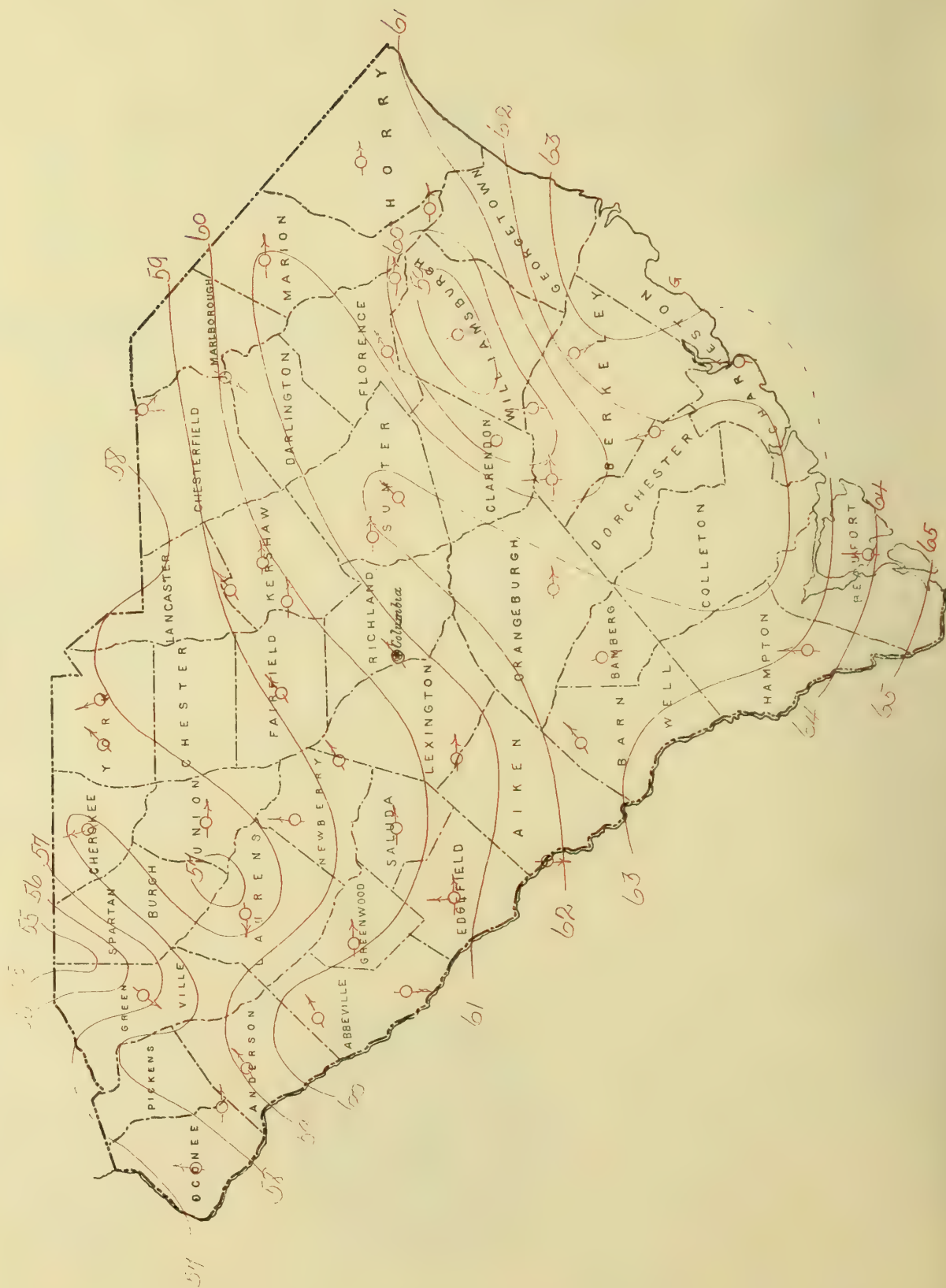


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL, 1902.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

**CLIMATE AND CROP SERVICE**

OF THE

**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,

COLUMBIA, S. C.

VOL. V.

COLUMBIA, S. C., APRIL, 1902.

No. 4.

**CLIMATOLOGY FOR THE MONTH.****Temperature, in Degrees Fahrenheit.**

The monthly mean for April, 1902, was 60.4° which is 1.7° below normal. The highest local mean was 64.0° at Beaufort; the lowest 54.9° at Greenville. The highest temperature was 91° at Blackville on the 24th, 25th and 30th; the lowest 24° at Longshore on the 2d. The greatest local monthly range was 64° at Longshore, the least 42° at Charleston. The mean of the daily maximum temperatures was 72.0°, of the daily minimum temperatures 48.8°.

Frosts.—The dates of the last frosts only, are given in this statement, and for the points named that represent every portion of the State: On the 2d at Blackville and Darlington; 3d, at Camden, Cheraw, Conway, Edisto, Effingham, Gaffney, Gillisonville, Kingstree, St. George, St. Matthew, Santuc, St. Stephens, Seivern, and Smiths Mills; 8th, Summerville; 9th, at Charleston, Columbia, Greenville, Little Mountain, Lugoff, Statesburg, Sumter, Trial, Yemassee, and Yorkville; 10th, Clemson College; 12th, Longshore; 16th, Heath Springs. On the 2d a general heavy to killing frost, with thin ice in places, occurred, but vegetation was too backward to be hurt. The later frosts did no material injury.

**Precipitation, in Inches.**

The average precipitation was 2.18 inches which is 1.43 below normal. The greatest local monthly amount was 3.79 at Santuc, the least, 0.87 at Walhalla. The greatest 24-hourly fall was 2.06 at Santuc on the 19th. This amount fell in 2 hours and 5 minutes, and was the only excessive rainfall at any station. The average number of days with rain was 7, ranging from 3 at Barksdale, Walhalla and Winnsboro to 13 at Columbia.

Snow.—A flurry at Longshore on the 8th.

Sleet.—A slight fall at Cheraw on the 8th.

Hail.—Cheraw, Columbia, 8th; Gillisonville, 29th; Heath Springs, 4th; Longshore, Santuc, 19th.

Weather.—The average number of clear days was 15, partly cloudy 9, and cloudy 6.

Winds.—The prevailing direction of the wind was from the west at 13 stations, from the southwest at 11, from the south at 8, from the northwest at 6, from the northeast and southeast at 3 each, and from the north and east at 1 each.

High Winds.—Beaufort, 7th; Blackville, Charleston, 8th; Columbia, 1-6-7-8-9-23-25-26-29th; Due West, 1-2-8th; Gillisonville, 2-8th; Heath Springs, 8-29th; Liberty, 1-2-4-5-6-8-9-29th; Little Mountain, 29th; Longshore, 26th; Lugoff, 6-28th; Sumter, 26-27-28th; Trial, 8-9th; Walhalla, 1-2-8th.

**ERRATA.**

March, 1902, report, on page 6, the mean maximum temperature at Clemson College 60.1°, should be 61.0°; on page 5, monthly mean temperature at Clemson College, 49.2°, should be 49.6°.

**PROGRESS OF FARMWORK.**

April is, in South Carolina, more largely devoted to planting operations than any other month in the year, when the conditions are favorable, and during the current April the conditions could not well have been bettered for the preparation of lands and for planting.

Early in the month, the temperature was too low for rapid germination of seeds, but after the first decade higher and nearly normal temperatures prevailed and germination was more satisfactory.

There was a general deficiency in precipitation throughout the State, greatest in the extreme western and eastern portions, respectively, but in the west the ground held sufficient moisture and the absence of heavy rains was beneficial rather than harmful; while in the east the deficiency in rainfall intensified a drought that has existed continuously since July, 1901, and which, since then, has not been greatly ameliorated at any point, and at no place entirely relieved. Nevertheless, the showers that fell moistened the surface soil sufficiently to bring up corn, cotton, rice and tobacco to very satisfactory stands.

Almost the whole of the corn, cotton, rice, and melon crops, as well as gardens and crops of little or no commercial value, were planted, a work that usually extends well into May. Cultivation of corn and transplanting of tobacco were also begun.

The heavy to killing frost on the 2d injured peaches to some extent, but subsequently it was noted that enough sound fruit was left on the trees to make a full crop. Pear and apple trees had not budded enough to have been at all injured. The frosts after that on the 2d, were light as a rule, and did no harm. Hail storms occurred on the 19th and 25th, but actual damage was confined to very small areas. Truck was retarded in growth by the cool weather early in the month, and the lack of moisture, but later developed rapidly and the season's shipments of vegetables were but slightly later than usual.



**MISCELLANEOUS PHENOMENA (with dates).**

Zodiacal Lights.—Very distinct at Statesburg 8-9th.

Lunar Halos.—Charleston, 20, 21, 22, 23; Santuc, 20.

Solar Halos.—Charleston, 21, 23, 24, 26, 27, 29; Gillisonville, 30; Santuc, 20; Statesburg, 6, 7, 13.

Dense Fogs.—Blackville, 19; Bowman, 27, 30; Charleston, Gillisonville, Lugoff, 17, Little Mountain, Longshore, Statesburg, 25; Santuc, 18.

Thunderstorms.—Aiken, 7, 17, 30; Allendale, Society Hill, 29; Anderson, Batesburg, Clemson College, Greenville, 19; Beaufort, 7, 17, 29, 30; Blackville, 7, 17, 19, 30; Bowman, 8, 17, 19; Charleston, 7, 17, 24, 25, 29, 30; Cheraw, 4, 8, 17, 29; Columbia, 7, 19, 25, 26, 29, 30; Darlington, Summerville, Trial, 7, 29; Due West, Saluda, 30; Effingham, Pinopolis, 7; Gillisonville, 7, 16, 29, 30; Heath Springs, 4; Liberty, 17, 19; Little Mountain, 17, 19, 30; Longshore, 7, 16, 19, 28, 29; Lugoff, 4, 5, 7, 8, 20, 25, 29, 30; Santuc, 17, 28; Seivern, 29, 30; Statesburg, 7, 17, 25, 29, 30; Trenton, 7, 29, 30; Walhalla, 16, 30; Winthrop College, 19, 23; Yorkville, 17, 23.

**REMARKS BY OBSERVERS.**

Longshore.—Trace of snow on the 8th. First whippoorwill heard on the 11th.—W. G. Peterson.

Blackville.—Monthly mean temperature was  $1.7^{\circ}$  above normal; precipitation 0.59 below.—G. D. C. Lange.

Bowman.—The latter part of the month was favorable for farm work. Small grains began to head.—B. O. Evans.

Anderson.—Cotton planting was about finished by the close of the month. Stands of corn were good.—R. B. Dean.

Barksdale.—The dry weather of the month was favorable for the preparation of lands and planting operations.—E. E. Putnam.

Batesburg.—Rainfall deficient. Corn looked well at close of the month. Cotton came up to good stands. All fruits were promising.—E. J. Hite.

Heath Springs.—Some small grain looks promising. Much early corn replanted. Corn and cotton not all planted. Fruit crop fine.—J. A. Weaner.

Gillisonville.—Month cold and unfavorable for germina-

tion. Corn all planted. Cotton nearly so; the latter looks sickly. Oats look promising.—Sam P. Saltus.

Trenton.—Precipitation 1.55 inches below normal, and 0.41 less than normal for the first 4 months of the year. Light ground freeze and ice on the 9th.—C. A. Long.

Society Hill.—All crops greatly benefited by the rain on 29th. Fruit safe from frost. Mean temperature  $1.6^{\circ}$ , and precipitation 1.21 inches below normal.—Maj. J. J. Lucas.

Allendale.—Severe hail storm on 29th, did serious damage to crops in some sections. The month lacked rainfall for crops, but corn and cotton came up to good stands.—R. D. Peeples.

Liberty.—Month favorable for farm work, except too dry to bring up shallow-planted seeds of all kinds. Planting nearly finished, with only fair stands of early plantings. Peach crop safe.—Jno. T. Boggs.

Santuc.—Killing frost and thin ice on 2d. Hail on 19th damaged fruit and small grain. On the same date precipitation was heavy and washed lands badly. Small grain failing. Planting in progress.—E. W. Jeter.

Lugoff.—There was an unusual amount of thunder and lightning during the month, and it was unusually warm. Stands of corn poor. Oats did fairly well. Cotton about all planted, coming up in places.—W. J. Burdell, M. D.

Beaufort.—Rainfall was light, and the winds were drying, and the sun hot. The rainfall on 30th did much good. Much of the cotton was not up at close of month. Mean temperature was  $1.6^{\circ}$ , and rainfall 0.32 inches below normal.—S. M. Benton.

Statesburg.—The frosts on the 2d and 9th were partially killing on low grounds. The rains at the close of the month having been accompanied by a rise in temperature, were very beneficial to cotton, causing it to germinate rapidly and vigorously.—W. W. Anderson, M. D.

**MIGRATORY BIRDS.**

The first appearance of migratory birds, and a common insect, were noted at a few stations as follows: Longshore, whippoorwill heard first on 11th. Lugoff, whippoorwill heard first on 1st; saw first bee-martin on 11th. Society Hill, first humming bird was seen on 18th; first whippoorwill on 19th; first night-hawk on 30th. Statesburg, first large brown fly-catcher heard on 15th; first fire-fly was seen on 22d; first rain-crow heard on 25th.



CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1902.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.
Aiken	Aiken	565	1	61.3		91	25	27	1	37	3.35		1.30		5	20	4	6	sw.	C. F. McGahan.
Allendale	Barnwell	186	14	62.9	-1.6	88	*26	38	16	39	1.92	-0.33	0.80		4	18	7	5	.....	R. D. Peoples.
Anderson	Anderson	764	1	61.4	+1.3	87	30	32	2	35	1.50	-1.96	1.00		4	11	9	5	sw.	R. B. Dean.
Augusta, Ga.	Richmond	134	31	62.0	-2.0	87	30	37	9	33	2.71	-0.83	1.04		8	15	8	7	nw.	Weather Bureau.
Barksdale	Laurens	780	1	57.0		88	29	38	11	48	1.70		0.70		3	26	3	1	e.	E. E. Putnam.
Batesburg	Lexington	656	14	60.0	-2.5	87	*25	33	2	34	2.55	-0.50	1.00		7	18	7	5		E. J. Hite.
Beaufort	Beaufort	28	16	64.0	-1.9	85	24	40	9	30	1.88	-0.32	0.83		9	16	12	2	s.	S. M. Benton.
Bennettsville	Marlboro		1																	R. T. Barfield.
Blackville	Barnwell	296	14	62.7	-1.4	91	*24	34	*2	37	3.21	-0.39	1.30		7	14	13	3	sw.	G. D. C. Lange.
Bowman	Orangeburg	160	1	62.8		88	24	34	2	21	2.91		1.20		5	23	5	2	w.	B. O. Evans.
Calhoun Falls	Abbeville	508	9								1.49	-2.62	0.69		4	28	0	2	nw.	P. J. Pfeiffer.
Camden	Kershaw	222	36								1.98	-1.29	0.90		7	15	7	8	w.	W. F. Hudson.
Charleston	Charleston	48	33	62.0	-3.0	80	24	38	9	26	1.03	-2.23	0.34		9	13	14	3	s.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	57.0	0	84	30	32	2	27	1.68	-1.88	0.56		10	13	10	7	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	144	14	58.6	-3.0	87	30	31	2	32	2.58	-0.69	0.95		9	12	10	8	n.	W. R. Godfrey.
Cheraw (2)		144	9								2.34	-1.51	0.92		8	13	11	6	nw.	Jno. H. Powe.
Clemson College(a)	Oconee	850	11	58.2	-1.0	87	*24	33	*1	37	1.47	-2.43	0.42		7	11	12	5	w.	Prof. C. C. Newman.
Columbia	Richland	351	15	61.0	-2.6	86	30	35	9	29	3.23	+0.45	0.82		13	11	11	8	sw.	Central Office.
Conway	Horry	25	11	60.6		86	23	33	2	39	1.08	-1.76	0.55		3	13	6	11	w.	F. Quattlebaum.
Darlington	Darlington	175	7	61.0		87	*25	31	1	35	2.86	-1.48	1.34		6	17	9	4	.....	E. K. Gilbert.
Dur West	Abbeville	740	1	60.1		85	25	33	2	32	2.14		0.84		7	17	9	4	sw.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	9								3.43	-0.38	0.92		7	13	9	8	nw.	Miss Jerry Carter.
Edingham	Florence	106	10								3.15	+0.17	1.50		6	14	10	6	sw.	H. B. McCall.
Florence	Florence	136	14	59.1		87	30	33	2	31	2.47		1.41		3	19	2	7	sw.	H. K. Gilbert.
Gaffney	Cherokee	893	6	58.0		86	25	30	2	37	1.63	-4.22	0.45		12				se.	B. F. Camp.
Georgetown	Georgetown	12	9	63.0		85	22	38	9	38	2.00		1.25		2	28	0	2	sw.	W. T. Turbeville.
Gillisonville (a)	Hampton	50	7	62.8	-1.8	90	24	32	2	40	1.99	-1.46	0.57		6	18	6	5	s.	San P. Salsus.
Greenville	Greenville	989	10	54.9	-2.8	83	26	26	2	38	1.94	-2.47	0.64		5	21	0	9	ne.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	58.8	-2.3	90	*25	31	2	35	1.92	-1.99	0.75		7	20	3	7	w.	M. M. Calhoun.
Heath Springs	Lancaster		1	58.8		88	30	36	*8	30	2.25		1.20		5	21	6	2	sw.	J. A. Weaver.
Kingstree (1)	Williamsburg	54	14	59.0	-3.9	84	29	32	2	32	1.67	-1.02	0.59		6	12	11	7	.....	M. Cullen.
Kingstree (2)		54	8								1.62	-1.58	0.58		6	17	7	6	nw.	W. H. Matthews.
Liberty	Pickens	900	8	58.6	-1.4	89	*26	31	9	40	1.37	-2.95	0.82		4	13	12	5	.....	Jno. T. Boggs.
Little Mountain	Newberry	711	9	60.5	-1.7	88	28	31	2	35	2.54	-1.80	0.97		9	8	14	8	sw.	John M. Sease, M. D.
Longshore	Newberry	530	9	59.4	-2.0	88	24	24	2	39	2.55	-1.87	0.86	T.	8	9	13	8	s.	W. G. Peterson.
Lugoff	Kershaw	168	1	60.8		90	29	31	2	42	1.98		0.74		12	18	7	5	w.	W. J. Burdell, M. D.
Pinopolis	Berkeley	54	9	63.7	+1.7						1.43	-2.08	0.56		5	16	10	4	nw.	E. P. Ravenel.
St. Georges	Dorchester	109	14	61.5	-2.1	86	*25	34	2	33	1.90	-1.30	0.75		6	14	12	4	.....	W. B. Raysor.
St. Matthews	Orangeburg	269	14	62.0	-2.0	85	30	37	9		3.14	-0.48	1.22		7	14	8	8	.....	J. S. Wannamaker.
St. Stephens	Berkeley	73	10								2.77	-0.01	0.93		6	14	8	8	s.	C. T. Shuler.
Saluda	Saluda	536	1	60.6		89	25	30	2	38	2.37		0.96		10	24	0	6	w.	W. A. Edwards, Jr.
Santac	Union	512	9	57.8	-2.1	88	30	28	2	41	3.79	-0.21	2.06		8	11	14	5	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	65.0	-1.0	86	24	40	9	27	2.47	-0.81	1.42		9	16	12	2	sw.	Weather Bureau.
Seivern	Aiken	482	1	60.8	-3.3	90	*24	28	2	46	2.17	-2.18	0.90		6	6	15	9	w.	J. F. Lyles.
Smiths Mills	Williamsburg	62	7								2.66	-1.36	1.40		6	15	6	9	w.	H. van Keuren.
Society Hill	Darlington	192	11	60.7	-1.6	86	*23	35	1	29	3.02	-1.21	1.12		8	17	7	6	ne.	F. J. Lucas.
Spartanburg	Spartanburg	875	11	58.4	-2.0	87	30	33	*1	38	1.28	-2.88	0.34		8	17	2	11	.....	F. P. Robinson.
Statesburg	Sumter	500	22	62.4	-0.4	86	29	34	9	30	2.92	-0.17	1.19		7	13	8	9	w.	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	62.2	-0.4	85	*23	35	*1	33	1.19	-3.86	0.45		7	19	8	3	se.	Prof. Jno. Gadsden.
Sumter	Sumter	169	1	61.5		85	30	35	*2	37	3.92		1.35		8	15	7	8	sw.	Prof. W. A. Buckner.
Temperance (c)	Marion	100	4	61.0	+0.8	87	30	30	1	41	3.39	-1.56	1.66		5	19	8	3	w.	J. R. Reeves.
Trenton	Edgefield	620	9	60.6	-4.1	89	25	33	9	31	2.58	-1.55	0.96		6	15	12	3	s.	C. A. Long.
Trist	Berkeley	85	16	60.0	-1.9	84	*25	31	1	40	2.30	-0.27	0.99		4	14	12	4	s.	E. F. Pagan, jr.
Walhalla	Oconee	1061	12	57.2	-2.3	86	24	28	1	41	0.87	-4.83	0.45		3	18	6	5	s.	S. M. Pagan.
Wilmington, N. C.	New Hanover	52	33	60.0	-1.0	83	30	37	2	29	1.62	-1.18	0.72		7	12	14	4	sw.	Weather Bureau.
Winnboro	Fairfield	545	13	59.8	-2.4	86	*29	32	*1	33	2.20	-0.73	1.05		3	25	2	3	sw.	John W. Seigler.
Winthrop College	York	690	3	58.5	-2.9	86	30	31	2	33	1.98	-1.38	0.80		6	12	13	5	sw.	Geo. B. Green.
Yemassee	Beaufort	23	7	61.8	-2.6	85	30	39	2	40	1.27	-1.80	0.36		8	13	9	8	.....	R. G. Smith.
Yorkville	York	680	14	60.8	-0.8	89	30	32	2	33	1.75	-2.03	0.62		8	9	13	8	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				60.4	-1.7	91	*24	24	2	48	2.18	-1.43	2.06	T.	7	15	9	6	w.	

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., and 9 and 2 p. m. observations.

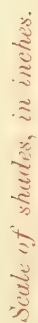


### STATIONS.

STATIONS.																																Monthly mean.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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61	33	66	36	64	67	43	72	75	59	65	45	63	69	42	70	54	66	46	65	46	66	48	80	46	84	54	86	57	80	68	53	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87	55	87



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## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

APRIL, 1902.

DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1902.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken							1.00	.25						.50			1.30	.30													T.	3.35	
Allendale							.80							.30			.66		.16												T.	1.92	
Anderson		T.											T.	.25	T.		1.00		.29				T.							T.	.12	1.50	
Augusta, Ga.				.17		.02	.46	.58					T.	.25	T.		.99		.17	.07											T.	2.71	
Barksdale				.20		.70		1.00							.25	T.	.70		.45		.20										.25	1.70	
Batesburg				.15			.03	.38						.03	.17		.23		.06								T.	.20		.11	.72	2.55	
Beaufort																																	1.88
Bennettsville				.04	.10			.92						T.	.42		1.30		.40												.03	3.21	
Blackville								1.20						.30		1.15		.18													.15	2.91	
Bowman								.36									.69		.29									.06			.05	1.49	
Calhoun Falls								.90					T.	.20			.55		.08												.04	1.98	
Camden				T.	.14			T.	.34					.23	.01	T.	.29	.02						.03	.04		T.		.01	.05		1.03	
Charleston				.03				.02	.56					.04	.05		.38		.07											.10	.25	1.68	
Charlotte, N. C.				.27				T.	.95	.02				.22			.78		.10								.05			.10	.11	2.58	
Cheraw(1)				.01	.20			T.	.92	T.					.20		.76													.14	.09	2.34	
Cheraw(2)				.03	.19			T.	.24					.07		.33	.42	.18					T.		.05	.82	.06	T.		.07	.09	1.47	
Clemson College								.18	.73					.18	.01		.68		.24	.02											.23	3.23	
Columbia								.55							.30																.51	1.08	
Conway								.34	T.					.30			.65		T.												.21	2.86	
Darlington, near			.03	.03			T.	1.34	T.					.07			.84		.20								.12		T.		.26	2.14	
Due West						.25			.44						.26		.75				.20					.45					.25	3.43	
Edisto								.60									.25														.25	3.15	
Effingham				.05				1.50									1.04														.25	2.52	
Florence																	.15	.02	.13	.40	.04	.28				.02					.02	1.63	
Gaffney				.05				.02	.45								.75																2.00
Georgetown								T.						1.25																.34		1.99	
Gillisonville				.08				.57						.41			.44		.15												.12	1.94	
Greenville									.34								.32	.52		.64										.10	.20	1.92	
Greenwood								.75									.12																2.25
Heath Springs				.20				1.20						.10			.70		.05												.21	1.67	
Kingstree(1)				T.	.10			.59						T.	.29		.46										.02				.20	1.62	
Kingstree(2)				T.	.10			.58						T.	.29		.44													.10	T.	1.37	
Liberty				T.				.35									.82		.10											.02	.07	2.54	
Little Mountain				.04			.03	.47	.50					.16			.97		.28												.15	2.55	
Longshore				.04			.01	.86						.11	T.		.67		.70												.04	1.98	
Lugoff				T.	.02	.12		.11	.74					.14	.05		.62	T.	.01	.06										.11		1.43	
Pinopolis								.56									.27		.48												.10	1.90	
St. Georges				.04				.70						T.	.25		.75														.50	3.14	
St. Matthews					.06			.66						T.	.55		.97		.25												.45	2.77	
St. Stephens					.09			.93							.70		.52		T.	.09											.12	2.37	
Saluda				.07				.96	T.					.16	.04		.72		T.	.09											.01	.02	3.79
Santuc				T.				.05	.66					T.	.09	.02	.72		2.06												.12	2.47	
Savannah, Ga.				T.	.01			.03	.38					.28	.02	T.	.16	T.	.04	.13										.20	T.	2.17	
Seivern			.12					.90						T.	.29		.50		.30												.18	2.66	
Smiths Mills								1.40									.70																3.02
Society Hill				.30				1.12							.20		.70														.12	.32	1.28
Spartanburg				.05				.03	.33						.10		.16	.34	.04	.23							.09				.12	.09	2.92
Statesburg				.11				T.	1.19						.27		.82		T.												.04	.09	1.19
Summerville				.02				.45						.01	.18		.40														.13	3.92	
Sumter				.07				.57	.77						.23	.05	.70	.18													.52	3.39	
Temperance				.18				1.66							.38		.65														T.	T.	2.58
Trenton					.17			.23	.96						.21		.79		.22												.17	2.30	
Trial								.99							.20		.94														.30	0.87	
Walhalla								.12									.45		T.												T.	.34	1.62
Wilmington, N. C.				T.				.72						T.	.34	.03	T.	.07	.06						.06								2.20
Winnboro								.90							.05	.16		1.05		.25					.15		T.			T.	T.	1.98	
Winthrop College								T.	.80						.12	.21		.75		.07					.03							.36	1.27
Yemassee					.05			.11							.06	T.		.57		.12				.16		.06					.08		1.75
Yorkville				.08				T.	.62																								

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



1902-05  
1902-05

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR MAY, 1902.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

---

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF  
WILLIS L. MOORE,  
CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,  
SECTION DIRECTOR.

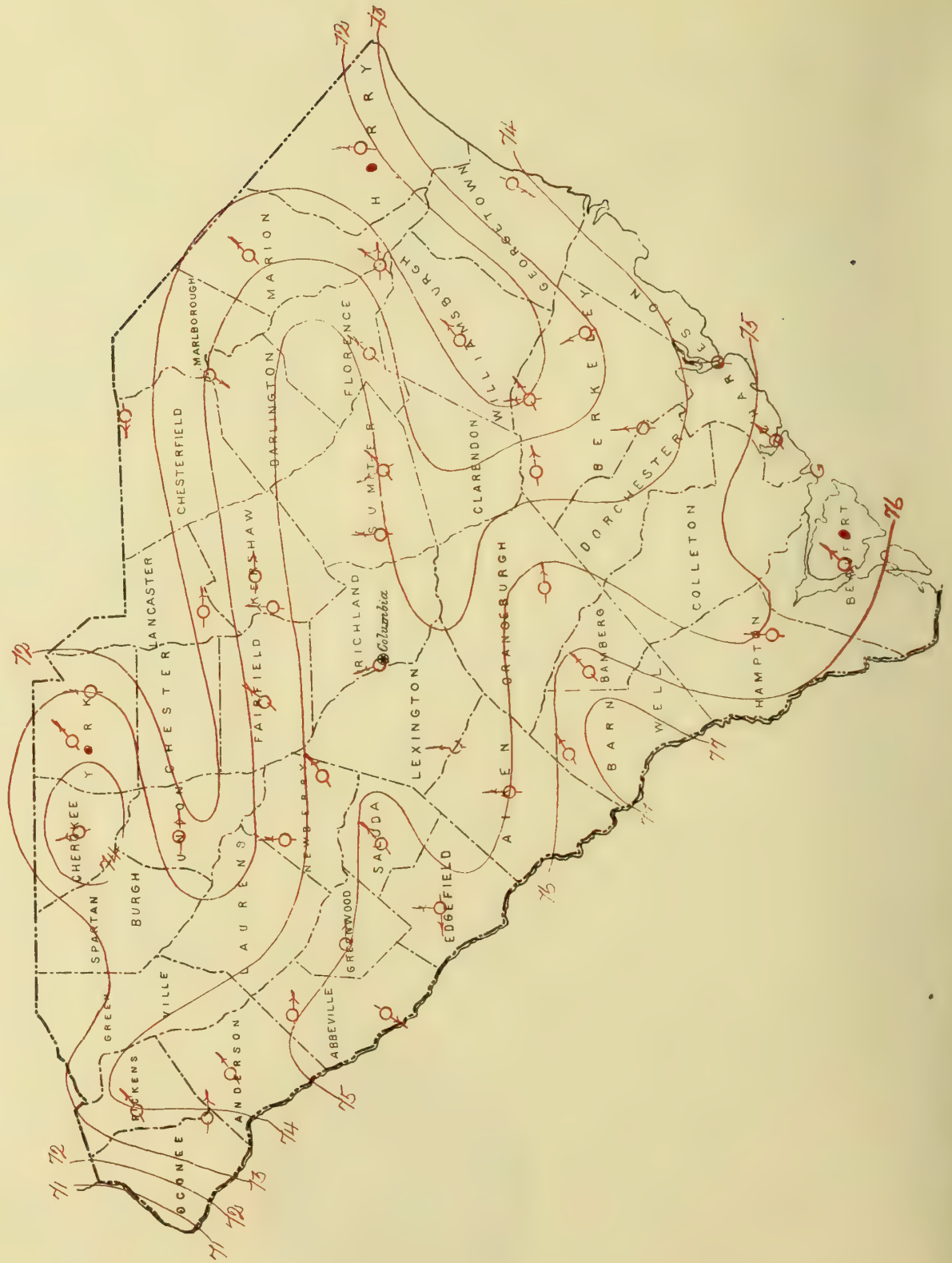


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MAY, 1902.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. V.

COLUMBIA, S. C., MAY, 1902.

No. 5.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The monthly mean for May, 1902, was  $74.0^{\circ}$ , which is  $2.4^{\circ}$  above normal. The highest local mean was  $77.4^{\circ}$  at Blackville, the lowest  $71.7^{\circ}$  at Kingstree. The highest temperature was  $101^{\circ}$  at Blackville on the 4th, the lowest  $42^{\circ}$  at Heath Springs on the 29th, and at Liberty on the 28th, making the State range  $59^{\circ}$ . The greatest monthly local range was  $56^{\circ}$  at Seivern, the least  $35^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $85.5^{\circ}$ , of the daily minimum temperatures  $62.4^{\circ}$ .

Frosts.—Liberty 28th. Light frosts were reported on the 28th, by climate and crop correspondents, in the extreme northwestern portions of the State.

## Precipitation, in Inches.

The average precipitation was 2.69 inches, which is 0.67 below normal. The greatest local amount was 6.53 at Temperance, the least 0.29 at Liberty. The greatest 24-hourly fall, 2.02 at St. Stephens on the 25th. There was no excessive rainfall at any station. There was an average of 8 days with rain, ranging from 2 at Batesburg to 13 at Columbia and Smiths Mills.

Hail.—Hail was noted at the following voluntary observing stations: Beaufort, 1-3d; Blackville, Pinopolis, 14th; Bowman, Darlington, 25; Gillisonville, Santuc, 3d; Trial, 4th. The hailstorms of the 3d and 25th occurred at many points in the central and eastern counties, having been reported by climate and crop correspondents, and in places destroyed field crops, necessitating replanting.

Weather.—The average number of clear days was 15, of partly cloudy 10, and of cloudy 6.

Winds.—The prevailing direction of the wind was from the southwest at 17 stations, from the south at 12, from the west at 8, from the southeast at 6, from the northeast at 3, and from the east at 2.

High Winds.—High winds were noted as follows: Blackville, Longshore 1st; Charleston 15th; Columbia 1-25th;

Darlington, Florence, Lugoff and Santuc 25th; Liberty 7-10-11-25-27; Saluda 2-3rd.

## MISCELLANEOUS PHENOMENA (with dates).

Parhelion.—Santuc, 9.

Lunar Coronæ.—Lugoff, 20; Santuc, 16, 17.

Lunar Halos.—Blackville, 15; Gillisonville, 16, 17, 19.

Solar Halos.—Charleston, 9, 22, 29, 31; Gillisonville, 14, 15; Santuc, 31; Statesburg, 30.

Earthquakes.—Columbia, 24, 1:15 a. m.; and 9:02 a. m.; Summerville, 15, 10:30 p. m.; 24, 9:05 a. m.

Dense Fog.—Blackville, 7, 10, 11, 17; Bowman, Charleston, 5, 6; Clemson College, 16; Gillisonville, 6; Heath Springs, 9, 11; Little Mountain, 9; Longshore, 5, 9; Lugoff, 9, 10; St. Stephens, 11, 18; Seivern, 16, 26; Statesburg, Yorkville, 5; Trenton, 4.

Thunderstorms.—Aiken, 4, 8, 9, 10, 18; Beaufort, 1, 3, 4, 8, 9, 14, 15, 17, 18, 19, 25, 26; Blackville, 1, 10, 17, 19, 31; Bowman, 14, 25; Charleston, 2, 4, 8, 14, 15, 17, 18, 19, 20, 25, 27; Cheraw, (2) 1, 11, 13, 14, 25, 31; Clemson College, 8; Columbia, 1, 3, 7, 9, 12, 13, 14, 25, 31; Darlington, 7, 11, 25, 26; Gillisonville, 1, 3, 5, 8, 9, 10, 14, 15, 18, 19, 21, 25, 30, 31; Heath Springs, 14; Liberty, 1, 2, 3, 7, 8, 11, 14, 19, 25; Little Mountain, 3, 7, 11, 13, 14, 15, 16, 19, 21, 31; Longshore, 1, 2, 7, 13, 14, 31; Lugoff, 1, 2, 8, 11, 13, 14, 15, 25, 31; Pinopolis, 25; Santuc, 1, 2, 3, 7, 11, 12, 13, 14, 19, 25; Seivern, 9, 10, 11, 14, 31; Statesburg, 1, 14, 17, 18, 19, 25, 31; Sumter, 10, 12, 15, 26, 31; Trenton, 3, 4, 7, 8, 18, 21, 31; Trial, 4, 10, 14; Winthrop, College, 1, 3, 14, 18, 25; Yorkville, 7, 13, 14, 25.

## PROGRESS OF FARMWORK.

The mean temperature was slightly above normal, with a hot spell during the first week in May, followed by steady high temperatures until near the close of the month, when unseasonably cool weather prevailed for a few days, causing light frosts on the 28th in the extreme western portion.

The warm weather was conducive to rapid growth, while the cool period did no lasting damage to crops, although it checked them temporarily, and was detrimental to that extent, and also increased the destructive activity of cutworms on corn, and favored the appearance of lice on cotton.

Precipitation was deficient over the western half of the State, and along the immediate coast, although generally there was enough moisture in the soil for quick germination of seeds, and to maintain a sturdy, vigorous growth, and healthy color of crops. Locally, destructive hailstorms occurred on the 3rd and 25th, and destructive winds on the 25th.

The condition of the staple crops of corn, cotton, rice and tobacco, was very good, owing to favorable weather, but in places it was too dry for maturing wheat and oats. Harvesting of the latter grain made fair progress.

Stands of corn and tobacco were damaged by insects,



necessitating considerable replanting of the former. Bottom land corn planting made slow progress, owing to the dry and hard condition of those lands, especially over the western counties. Stands of cotton were almost perfect, with the plants healthy and vigorous, and there was need for very little replanting, except where first plantings were destroyed by hail. Early in the month sea-island cotton did not do well, but improved materially towards its close.

Field crops were generally well cultivated, with a few exceptions, where heavy rains interfered, and were free from grass and weeds. Truck continued to mature, and heavy shipments of white potatoes, beans and cucumbers were made.

Peaches, pears and apples dropped extensively, impairing the previous favorable prospects for a large fruit crop. The general crop prospects were very bright at the end of May.

BAROMETER TABLE.

Stations.	Mean.	Highest.	Lowest.
Augusta .....	30.04	30.26	29.97
Charleston .....	30.05	30.29	29.75
Charlotte .....	30.05	30.32	29.82
Columbia .....	30.06	30.32	29.80
Savannah .....	30.05	30.26	29.79
Wilmington .....	30.07	30.33	29.77

## REMARKS BY OBSERVERS.

Blackville.—Mean temperature of 4° below normal; precipitation 2.70 below normal.—G. D. C. Lange.

Allendale.—Rainfall deficient. Corn and cotton looked well at the close of the month. Fruits were promising.—R. D. Peebles.

Little Mountain.—At the end of the month all crops were in fine condition, well worked and free from grass.—John M. Sease, M. D.

Barksdale.—The month was dry. Cotton and corn look well. Wheat and oats are poor. The rainfall was light, but very beneficial.—E. E. Putnam.

Bowman.—The hailstorm on the 25th was very destructive to crops, in sections, in this vicinity. The accompanying electric display was terrific.—B. O. Evans.

Trenton.—Precipitation 1.29 inches less than the average for May, and 1.70 inches less than the average for the first five months of the year.—C. A. Long.

Summerville.—Mean relative humidity 76 per cent. Excess of rainfall for the month 0.03 inches; deficiency since January 1st, 21.74 inches.—Prof. John Gadsden.

Lugoff.—Crops look exceedingly well for the season, but the cool weather at the end of the month damaged cotton. Worms did some damage to corn.—W. J. Burdell, M. D.

Society Hill.—Cotton, corn and tobacco are more promising than last year; wheat and oats less so. Temperature 1.3°, and rainfall 0.80 above normal.—Maj. J. J. Lucas.

Anderson.—Crops in good condition. Cotton did not grow well during the last week, owing to the cool nights. Oats and wheat harvest were begun. Rain is needed.—R. B. Dean.

Batesburg.—Gardens a failure on account of drought throughout the month. Corn and cotton did well, except the nights were too cool, near the close of the month, for cotton.—E. J. Hite.

Beaufort.—One inch and sixty-three hundredths of rain fell on the 19th in less than 2 hours. Hail on the 1st and 3rd did considerable damage, over limited areas, in portions of the county.—S. M. Benton.

Liberty.—Weather dry. Gardens impaired. Wheat and oats suffering. Nearly all fruits dropped. Cotton looks well, and shows squares. Crops clean and well cultivated.—John T. Boggs.

Longshore.—On the 2nd, just at dark, during a thunderstorm, there was a hot wind that felt as if coming from a furnace. A dry month. Crops clean, and in fair condition.—W. G. Peterson.

Darlington.—On the 25th, there was a violent wind and hail in Darlington and vicinity. The hail was most severe from two to three miles north and west of Darlington. Some damage was done to crops, particularly to tobacco and cotton.—E. R. McIver.

Gillisonville.—Month wet and cold, with frequent showers and brisk winds. Corn, cotton and minor crops started well, and maintained a healthy growth. Farmwork well advanced. Acres of cotton and corn ruined by wireworms.—Sam P. Saltus.

Statesburg.—The month's weather conditions were favorable to the cultivation and growth of cotton and corn, and these crops now present a very promising appearance; better than has been the case for many years. Fall sown oats are good where there was sufficient rainfall. Gardens and pastures are poor.—W. W. Anderson, M. D.

Santuc.—A severe storm on the 25th, six miles wide, moving from the northwest towards the southeast, did great damage, several houses being destroyed, many partially. Crops were damaged and lands washed. Three persons were killed, and seven injured. The rainfall measured 1.13 inches, but owing to the high wind, it is not believed this measurement is correct. The temperature dropped 28° during the storm.—E. W. Jeter.

Through the kindness and courtesy of Hon. B. R. Tillman and the Chief of the Weather Bureau, this office has been enabled to supply the Year Book for 1901 to every voluntary observer and climate and crop correspondent in the South Carolina Section.



CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1902.

STATIONS	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.				Sky.				Prevailing direction of wind.	Observers																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.			Number cloudy days.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Aiken	Aiken	565	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc. \* On other dates also. † Mean from 7 a. m., and 9 and 2 p. m. observations.



### STATIONS.

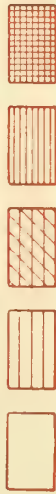
or,



TOTAL PRECIPITATION FOR MAY, 1902.



Scale of shades, in inches.



0 to 2 2 to 4 4 to 6 Over 6



## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1902.

STATIONS.	Day of Month.																															Total.			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Aiken	.30			.55					T.	.35					.20		.75	T.				.45										.72	2.02		
Allendale	.41			T.				.25						1.90	.20		.12	T.				.45									T.	2.26			
Anderson	.13		T.				.34	.05							.20		.08	T.	.05	.06		.01					T.					T.	2.74		
Augusta, Ga.	1.06	.02		.09				T.																			T.						.37	3.54	
Barksdale			.50				T.		T.																								0.50		
Batesburg		.70							T.																								0.90		
Beaufort		.27	.02					1.02	.01						T.	.91	.28	.58	.05	1.63								.20				T.	4.97		
Bennettsville																																	1.11		
Blackville	.10	.38							T.		.25				1.60	T.	.20	T.	.18	.02												.04	3.38		
Bowman	.05									.04																	1.35						.12	1.03	
Calhoun Falls		.69						.22																									1.03		
Camden		.63						1.03	.01			.11			.30	1.76	.03	T.	T.	.06	.01		T.					.68					4.62		
Charleston		T.	T.					.27	.22						.22		.24	T.	T.	.40								.38				T.	1.43		
Charlotte, N. C.	T.		T.					.12	.05			.04			1.21	.26		.01	.17	.40							1.13					T.	3.39		
Cheraw(1)		.89		.01				.05	.09				.24		1.20		.05	.07									1.00						4.04		
Cheraw(2)		.79		T.				.07	.07				.17		.53	1.57	T.	.04	.03		.06						1.20	.05					4.08		
Clemson College	.18			.16		.05	.06			T.				.10	.31		.13	T.	.21		.17							.51	.01			.05	1.42		
Columbia	.11						.01	T.					.84	.07	.24	.73	.02	T.	.08	.05		.25						.51	.01			.41	3.33		
Conway								.10	T.				.25		.30					.40								1.05	.40				2.50		
Darlington, near	.09						.13				.60			.20	.24	.59			.31		.14						1.36						3.78		
Due West	.02							.24							.56		T.																0.82		
Edisto		.37						.25				.08			.21	.20	.91	.42	.15	.76							.32		.06				3.76		
Effingham		.60						.15	.04			.50			.25	.15		T.	T.	T.							1.38		.37				3.44		
Florence								.20			T.	.40			.20	.68					.03							1.05	.33				2.89		
Gaffney		.04		.05				.10							.33					.31	.45												1.34		
Georgetown	T.	T.													.50			.52									.55					T.	1.57		
Gillisonville	.69		.40					T.	.73						.55	.46	1.18	T.	T.			.21											4.54		
Greenville		T.	.38	T.				T.	.15			.10	.20	T.	.27		.12	T.	.11	.11													1.47		
Greenwood		.20	.05					1.08							.42	.05		T.	T.	.12	.20												2.12		
Heath Springs	.08						.50				.06		.02	1.30			T.		.25		T.						.35						2.56		
Kingstree(1)	.06	.03						.09							.02		T.		.15	.36	.53							1.50	.03				2.77		
Kingstree(2)	.06	.02						.10							.03		T.		.10	.10	.55							1.50	.04				2.80		
Liberty	.15	T.	T.	T.			T.	T.	T.						T.	.04	.10	T.	T.	.12		.08											T.	0.29	
Little Mountain	.01		.04	.01			.53	.72			.53		T.	.20	.10	.04			.12														.48	2.89	
Longshore	.05	.13					.64				.04		.15	.01	.05			.11															.11	1.32	
Lugoff	.71	.02					1.15				.05		.30	.87	.02	.02	T.	T.		T.								.48	.03				.07	3.72	
Pinopolis							.26							.49														1.40						2.35	
St. Georges	.20	.10						.35	.15		.04	.80			.35				.85	.25	.25							1.10	.06				2.41		
St. Matthews	.25							.20							.20														.50	.04				5.18	
St. Stephens	.08						T.	.21							.05				.02										2.02	.05				2.43	
Saluda	.03		.04				T.	.40							T.	.07	T.	T.		.03													.07	0.64	
Santuc	T.		.11				T.	.03			T.	.30	.18	.39	.05		T.	T.	T.	.20								1.13					.06	2.45	
Savannah, Ga.	.11	.70	T.					.38	.18						.04	.01	.01	T.	.77		T.													0.59	
Seivern	T.			.10				.30		T.	.02				.07	T.	.02	.04		.80														4.20	
Smiths Mills	.18		.15					.30	.15						.10	.20	.22		.03		.08													5.05	
Society Hill	1.03							.18			1.55				.80	.12		.08		1.03	.12		T.					.57		.10	T.		T.	1.81	
Spartanburg		.06	.07				T.	.05							.09	.09	.09	.60		.20	.01	.04											.20	2.25	
Statesburg	.20	.15						.85	.02					.55	.12	.80		.45	.07	.05								1.05	.03				.18	3.25	
Summerville								.03	T.	.16		.01		.55	.10	.09		.55	.10	.09									.81	T.			.17	3.22	
Sumter		.24			T.																						1.60		.61				.22	6.53	
Temperance	.35						.15				1.06		.08	.35	T.		1.00	.16	T.			.19											.59	1.62	
Trenton	.22						.38								.08																		.20	5.66	
Trial	.06		.45							.70					.82		T.	.82	.98	.50								1.13							
Walhalla																																			
Wilmington, N. C.							T.		T.	T.	.69			.43	.39		T.	.04	.41	T.														2.33	
Winnboro															.19	.20	T.	.16	.84	.40													T.	2.81	
Winthrop College	.02		T.					.20							.19	.20	T.	.16	.84	.40													T.	2.04	
Yemassee	.21	.12						.22	.05						.63	.13	.18	.09	.02	T.			.04							.34	.01			T.	1.80
Yorkville								.34							.34		T.																	T.	

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



757.05  
10-1-02

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JUNE, 1902.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

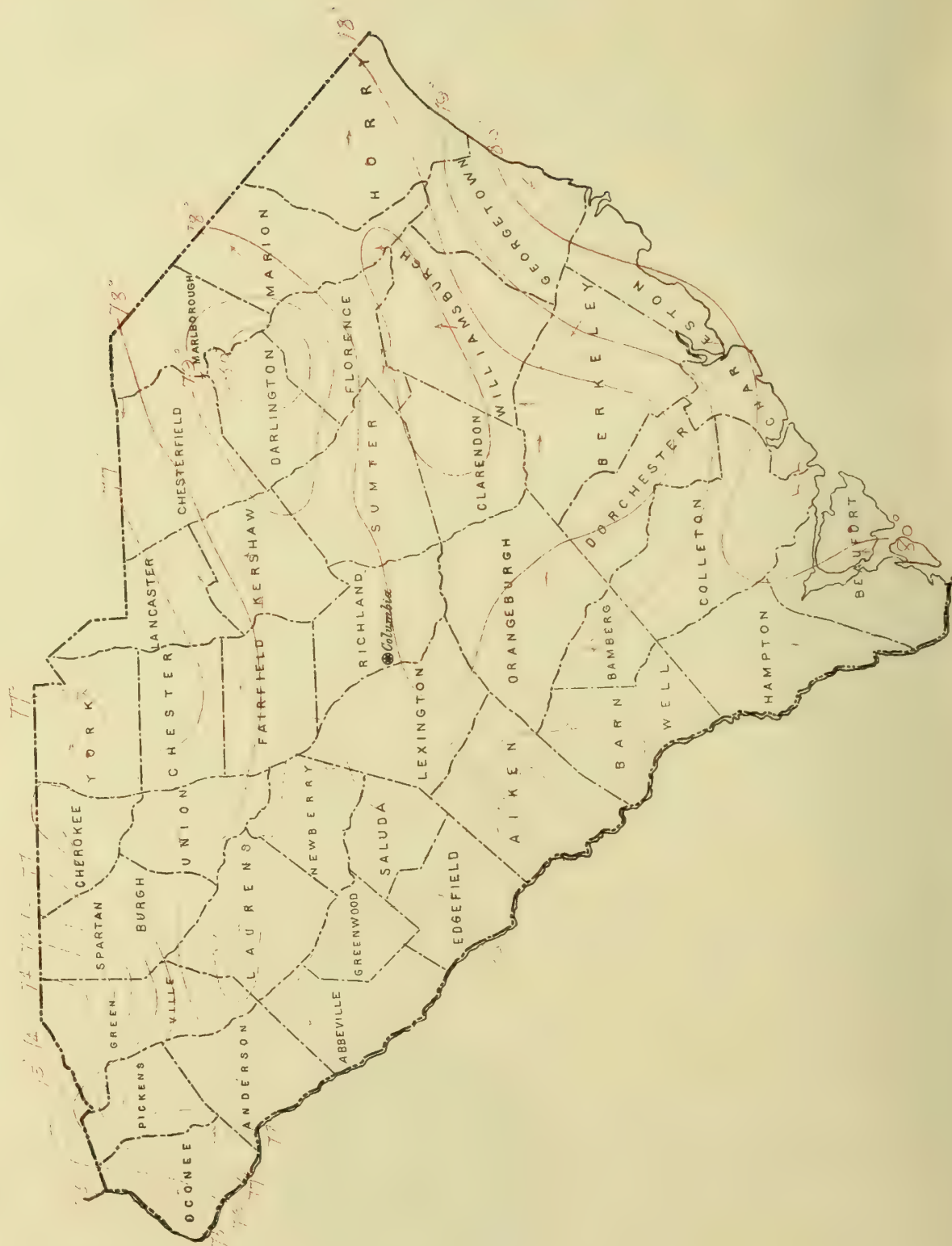
SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JUNE, 1902.  
(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. V. COLUMBIA, S. C., JUNE, 1902.

No. 6.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The monthly mean for June, 1902, was 78.5°, which is 0.6° above normal. The highest local mean was 81.3°, at Aiken, the lowest 74° at Greenville. The highest maximum was 105°, at Liberty on the 12th, the lowest minimum 52° at Santuc on the 10th, making the State range 53°. The greatest local range was 49° at Gaffney and Liberty, the least 32°, at Charleston and Saint Matthews. The mean of the daily maximum temperatures was 89.6°, of the daily minimum temperatures, 67.4°.

Precipitation, in Inches.

The precipitation averaged 4.48 inches, which is 0.38 below normal. The greatest local amount was 8.11, at Trenton, the least 1.39, at Cheraw (1). The greatest 24-hourly fall was 4.40 at Gaffney on the 15-16th. There was an average of 9 rainy days, ranging from 4 at Anderson and Calhoun Falls to 14 at Charleston.

Hail.—Hail was reported at the following stations: Blackville, 8th; Bowman, Darlington, 21st; Conway, Gillisonville, Lugoff, 4th; Longshore, 26th; Statesburg, 4-8th.

Excessive precipitation.—Allendale 14-15th, 3.30 in 17 hours; Barksdale 14-15th, 3.10 in 24 hours; Blackville 15-16th, 3.90 in 14:30 hours; Gaffney 15-16th, 4.40 in 24 hours; Greenville 16th, 2.22 in 1 hour; Heath Springs 15th, 2.00 in 1 hour; Lugoff 7th, 1.16 in 1 hour; Spartanburg 15th, 3.40 in about 18 hours; Trenton 15th, 2.72 in 24 hours; Winnsboro 15th, 2.60 in 24 hours.

Weather.—The average number of clear days was 15, of partly cloudy 10, and of cloudy 5.

Winds.—The prevailing direction of the wind was from the southwest at 19 stations, from the south at 10, from the west at 9, from the southeast at 6, from the northeast at 3, and from the east at 1.

High winds.—Anderson, 8-25th; Barksdale, Blackville, Due West, Longshore, Lugoff, Society Hill, Spartanburg,

26th; Beaufort, 15th (50 miles per hour); Charleston, Columbia, Statesburg, 8-26th; Cheraw, Temperance, 26-27th; Gaffney, 7-8-26th; Gillisonville, 4th; Greenville, 18-20-26th; Heath Springs, 7-8-16-26-29th; Liberty, 18-26-27th; Saluda, 4-27th; Santuc, 26-29th; Sumter, 16-26th; Trenton, 16th; Trial, 15-26th.

BAROMETER TABLE.

Stations.	Mean.	Highest.	Lowest.
Augusta .....	29.96	30.35	29.44
Charleston .....	29.97	30.35	29.66
Charlotte .....	29.96	30.39	29.44
Columbia .....	29.96	30.39	29.59
Savannah .....	29.97	30.31	29.63
Wilmington .....	29.98	30.39	29.62

## PROGRESS OF FARMWORK.

There was absence of regularity in the temperature distribution during June, but generally the northeastern and the Savannah Valley counties were the warmest, in which regions it was above normal, while at a few points the temperature was slightly below normal. The temperatures were conducive to rapid and vigorous growth of crops until near the close of the month, when it became excessively hot.

The rainfall distribution was likewise uneven, and seemingly erratic, with marked deficiencies along the coast and over the northeastern and extreme western counties. A few of the south-central counties had excessive and slightly harmful amounts, but the State average was about normal.

These conditions were, in the main, favorable for crop development, while there was, as well, ample opportunity between rains to cultivate and clean the fields. Field crops were in fine condition at the beginning of the month, and, under the favorable weather that prevailed, maintained this condition to its close, so that the prospects for corn, cotton, rice, and many of the numerous minor crops were exceedingly bright. Cotton began to bloom during the second decade. Early corn was layed by, while stubble and bottom lands were planted to corn. Tobacco was not uniform in its condition, but on the whole became a fine crop; cutting and curing began about the middle of the month, but made slow progress. The weather was favorable for harvesting and threshing wheat and oats, but some oats were slightly damaged in the shock by rain. Peaches ripened, a moderately sized crop of slightly inferior quality, but there was much loss from rapid decay. Truck shipments ended during the month, except for watermelons, that began to ripen during the latter part. Fruits, other than peaches, were not materially influenced in their development by the weather variations. The rice crop developed into a very promising one, with no adverse weather to retard its growth. The month was, on the whole, favorable to agricultural interests.



## REMARKS BY OBSERVERS.

Spartanburg.—Tornadic winds on the 26th.—F. P. Robinson.

Trenton.—Severe wind, rain, and electric storm on the 16th.—C. A. Long.

Yorkville.—Much windy weather on the last few days of the month.—J. R. Schorb.

Cheraw (1).—There was a severe electrical storm with high winds on night of 26-27th.—W. R. Godfrey.

Anderson.—At the close of month crops were suffering for rain. The latter portion of the month was unusually windy.—R. B. Dean.

Blackville.—Mean temperature  $0.3^{\circ}$  below normal; precipitation 1.66 above. Prevailing winds from the southwest.—G. D. C. Lang.

Gaffney.—Severe wind storms on the 7th and 8th, and on the 26th there was a terrific wind storm, blowing with almost tornadic force.—B. F. Camp.

Barksdale.—The rainfall of the latter half of the month started crops to growing vigorously. High winds on the 26th damaged corn by splitting its blades.—E. E. Putnam.

Greenville.—Heavy thunderstorm on the 12th. High winds on the 18th, 20th, and 21st, did no damage. Severe thunderstorm on the 26th.—Mrs. S. A. Crittenden.

Liberty.—Crops grew nicely and much corn was layed by. Threshing was finished, and the yields of wheat were poor. Cotton looks better than for many years.—John T. Boggs.

Longshore.—There was a heavy wind and thunderstorm on the 26th. The month was generally favorable on crops, although there were some cool nights.—W. G. Peterson.

Santuc.—High winds all day on the 26th did much damage to crops. Parching winds have prevailed since that date that were injurious to all crops.—E. W. Jeter.

Batesburg.—There were beneficial rains after the middle of the month, and at its close all crops looked promising. There was a sand storm on the 5th, that did no damage.—E. J. Hite.

Lugoff.—Crops look well, although in need of rain at close of month. The storm on the 27th did considerable damage, and the accompanying rain damaged oats in the shock.—W. J. Burdell, M. D.

Society Hill.—High winds on the 26th. First covey of young quail noted on the same date. Crops are unusually fine. Temperature  $1.8^{\circ}$  above, and rainfall 3.30 below normal.—Maj. J. J. Lucas.

Allendale.—All crops very promising at close of month. Fine crop of watermelons being shipped. Peach crop short.

Excessive rain on 15th damaged lowlands somewhat.—R. D. Peeples.

Bowman.—Temperature increased rapidly after the middle of the month. All crops comparatively clean and well worked. Cotton growing unusually fast. Corn needed rain to fill out well.—B. O. Evans.

Gillisonville.—Month showery, closing with hot spell. Weather very favorable on crops, that made fair growth, which was checked during the latter portion, when corn was badly namaged. Fields were layed by in good condition.—Sam. P. Saltus.

Beaufort.—Mean temperature  $0.5^{\circ}$ , and precipitation 2.92 inches below normal. The last week was entirely without rain, and generally without dew. During this time the temperature was in the nineties every day, with a dry, hot wind blowing briskly. Much corn was ruined, and all crops suffered impairment.—S. M. Benton.

Statesburg.—Destructive hail on the 4th; on the 8th some hail with high winds that did little damage. Weather conditions were favorable for the rapid and vigorous growth of all crops, all of which looked more promising than for many years up to the 26th, after which the high temperature and brisk, drying winds caused a rapid deterioration.—W. W. Anderson, M. D.

## MISCELLANEOUS PHENOMENA (with dates).

Earthquake, light.—Longshore 10.

Lunar Halos.—Beaufort, Santuc, Seivern, Statesburg, Trial, 13; Bowman, 13, 26; Charleston, 13, 21, 22.

Solar Halos.—Charleston, 13, 24, 26; Gillisonville, 24; Liberty, 28, 29, 30; Santuc, 3, 14; Statesburg, 3.

Dense fogs.—Beaufort, Little Mountain, Statesburg, 18; Bowman, St. Stephens, 6; Seivern, 7, 9, 14.

Thunderstorms.—Aiken, 1, 3, 7; Barksdale, 21, 26; Beaufort 4, 8, 14, 16, 17, 18, 20, 21, 22, 24; Blackville, 4, 7, 8, 15, 19, 21, 26; Bowman, 19, 21; Charleston, 4, 8, 9, 16, 17, 18, 19, 20, 21, 26, 27; Cheraw, 7, 8, 18, 20, 21, 25, 26; Clemson College, 15, 20; Conway, 8, 26; Columbia, 4, 7, 8, 15, 16, 19, 26; Darlington, 7, 15, 21, 26; Due West, 26; Gaffney, 7, 8, 15, 16, 26; Georgetown, 4, 8; Gillisonville, 4, 7, 8, 16, 17, 18, 20, 21, 22, 24; Greenville, 12, 20, 21, 26; Liberty, 5, 6, 7, 8, 12, 13, 15, 16, 18, 19, 20, 21; Little Mountain, 4, 7, 8, 14, 15, 26; Longshore, 4, 7, 14, 15, 16, 18, 19, 26; Lugoff, 7, 8, 18, 27; Pinopolis, 7, 8, 26; Saluda, 27; Santuc, 7, 8, 15, 21, 24, 27; Society Hill, 8, 18, 26; Statesburg, 4, 6, 7, 8, 16, 18, 19, 20, 21, 26; Spartanburg, 12; Summerville, 2; Sumter, 4, 8, 9, 21, 27; Trenton, 6, 7, 8, 16, 17, 18, 19, 21; Trial, 4, 7, 8, 18, 20, 21, 26; Winthrop College, 7, 8, 15, 26; Yorkville, 8, 27, 30.

## PROF. JOHN GADSDEN DEAD.

Prof. John Gadsden died at his home in Summerville on June 11 at an advanced age. He was prominently connected with the educational history of Charleston during his whole life. He was for fifteen years superintendent of the Holy Communion Church Institute, now Porter Military Academy, and at the time of his death held the professorship of English at the College of Charleston. Since May, 1898, Professor Gadsden served as a voluntary observer at Summerville, and his reports were models of accuracy and excellence. He was a lover and close observer of nature in all its forms and manifestations, and a thorough student of meteorology.



CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1902.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
Aiken	Aiken	565	1	81.3		101	*2	59	*23	41	3.70		1.85		4	16	7	7	C. F. McGahan.
Allendale	Barnwell	186	14	79.8	+2.1	98	28	63	*10	29	7.35	+2.80	3.30		4	17	2	11	R. D. Peoples.
Anderson	Anderson	764	1	79.0	+3.1	101	12	60	10	35	3.64	-1.79	1.58		4	17	12	1	R. B. Dean.
Augusta, Ga(a)	Richmond	134	31	79.4	+0.4	100	30	64	9	38	4.55	-0.05	2.44		8	16	12	2	Weather Bureau.
Barksdale	Laurens	780	1	80.0		100	12	58	*24	36	5.70		2.60		6	21	8	1	E. E. Putnam.
Batesburg	Lexington	656	14	78.0	-0.8	99	29	59	*10	37	6.38	+2.72	2.40		8	14	10	6	E. J. Hite.
Beaufort	Beaufort	28	16	79.9	-0.5	98	30	65	*3	24	2.16	-2.92	0.51		11	14	13	3	S. M. Benton.
Bennettsville	Marlboro		1																R. T. Barfield.
Blackville	Barnwell	296	14	79.9	-0.2	101	30	59	*23	31	6.91	+1.66	2.14		12	13	16	1	G. D. C. Lange.
Bowman	Orangeburg	160	1	78.8		98	30	59	*10	31	8.02		2.40		10	20	8	2	B. O. Evans.
Calhoun Falls	Abbeville	508	9								4.25	+0.24	2.36		4	28	0	2	P. J. Pfeiffer.
Camden	Kershaw	222	36								5.46	+1.37	1.70		9	13	7	10	W. F. Hudson.
Charleston	Charleston	48	33	79.6	+0.6	99	30	67	9	22	1.81	-3.63	0.77		14	7	22	1	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	76.5	+0.5	98	12	57	24	27	4.07	-0.44	2.78		13	13	12	5	Weather Bureau.
Cheraw (1)	Chesterfield	144	14	77.4	-1.0	101	30	56	10	35	1.39	-3.70	0.66		8	5	16	9	W. R. Godfrey.
Cheraw (2)	Chesterfield	144	9								1.42	-4.59	0.71		9	12	11	7	Jno. H. Powe.
Clemson College	Oconee	850	11	77.2	+0.1	100	12	56	1	36	4.28	-1.48	1.14		8	11	18	1	Prof. C. C. Newman.
Columbia	Richland	351	15	78.4	+0.4	98	30	60	23	27	4.43	+0.27	1.47		10	12	15	3	Central Office.
Conway	Horry	25	11	77.1		100	30	57	10	33	4.20	-0.61	1.80		6	14	1	15	P. Quattlebaum.
Darlington	Darlington	175	7	79.3		100	30	55	22	34	2.62	-3.62	0.88		7	16	11	3	E. R. McIver.
Due West	Abbeville	740	1					66	23		4.07		1.70		5	26	3	1	Rev. O. Y. Bonner.
Edisto	Bamberg	127	9								7.53	+3.12	1.00		12	14	6	10	Miss Jerry Carter.
Edlingham	Florence	106	10								6.08	+1.67	1.15		10	14	10	6	H. B. McCall.
Florence	Florence	136	14	80.2	+1.2	98	*28	59	23	30	2.82	-2.72	1.30		9	19	0	10	H. K. Gilbert.
Gaffney	Cherokee	893	6	78.2		103	13	54	10	40	7.11	+2.53	4.40		12	15	7	8	B. F. Camp.
Georgetown	Georgetown	12	9	80.7	+1.8	99	29	63	*10	29	4.00	-2.12	1.50		8	23	7	0	W. T. Turbeville.
Gillisonville	Hampton	50	7	79.3	-0.6	103	30	60	*30	34	4.02	-1.29	0.92		9	17	9	4	Sam P. Saltus.
Greenville	Greenville	989	10	74.0	-0.1	96	12	54	2	35	5.34	0	1.90		9	18	3	9	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	78.5	-0.1	101	13	54	10	33	5.38	+1.25	2.25		7	18	0	12	M. M. Calhoun.
Heath Springs	Laurens		1	77.4		100	13	55	*24	32	3.77		2.00		6	23	7	0	J. A. Weaver.
Kingstree (1)	Williamsburg	54	14	76.5	-2.1	98	27	62	*23	29	4.20	-0.84	1.78		12	15	9	6	M. Cullen.
Kingstree (2)	Williamsburg	54	8								4.18	-0.88	1.75		12	14	11	5	W. H. Matthews.
Liberty	Pickens	900	8	78.7	+1.5	105	12	56	2	39	3.01	-1.98	1.95		5	14	13	3	Jno. T. Boggs.
Little Mountain	Newberry	711	9	79.2	+0.4	101	30	59	23	31	4.82	+0.35	2.00		11	7	18	5	John M. Sease, M. D.
Longshore	Newberry	530	9	78.8	+1.4	100	*12	58	10	32	5.47	+1.23	2.04		7	6	16	8	W. G. Peterson.
Lugoff	Kershaw	168	1	78.5		100	30	55	23	31	4.22		1.31		8	17	10	3	W. J. Burdell, M. D.
Pinopolis	Berkeley	54	9	79.2	+4.2	96	30	60	11	26	4.70	-3.13	1.12		8	17	8	5	E. P. Ravenel.
St. Georges	Dorchester	109	14	78.2		96	28	62	*10	27	5.40	-0.08	2.00		7	17	7	6	W. B. Raysor.
St. Matthews	Orangeburg	269	14	77.7	-1.3	94	29	62	10	29	3.76	-1.54	1.10		8	16	7	7	J. S. Wannamaker.
St. Stephens	Berkeley	73	10								5.05	-1.26	1.57		10	12	8	10	C. T. Shuler.
Saluda	Saluda	536	1	79.4		101	12	58	23	33	4.83		1.75		13	13	7	3	W. A. Edwards, Jr.
Sautuc	Union	512	9	77.3	+0.6	100	30	52	10	36	3.61	-0.27	2.36		9	9	19	2	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	79.8	-0.2	99	30	66	10	25	2.19	-3.92	0.67		8	17	10	3	Weather Bureau.
Severn	Aiken	482	1	78.1	-0.7	100	30	53	*10	43	7.22	+3.05	3.25		8	12	15	3	J. F. Lyles.
Smiths Mills	Williamsburg	62	7								4.00	-1.92	1.40		8	13	9	8	H. van Keuren.
Society Hill	Darlington	192	11	79.1		99	30	59	*9	30	2.28	-3.30	0.65		8	15	9	6	J. J. Lucas.
Spartanburg	Spartanburg	875	11	76.6	+1.9	100	12	55	10	35	6.43	+2.09	3.40		11	10	5	15	F. P. Robinson.
Statesburg	Sumter	500	22	78.8	+1.7	98	30	59	23	29	4.67	+0.43	1.59		11	8	12	10	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	77.2	+0.5	99	30	58	*17	36	2.81	-5.06	0.95		7	25	2	3	Miss L. R. Gadsden.
Sumter	Sumter	169	1	77.8		103	30	58	23	30	3.24		0.92		13	12	11	7	Prof. W. A. Buckner.
Temperance	Marion	100	4	78.0	+0.3	99	30	55	9	34	3.54	-1.60	0.96		8	22	7	1	J. R. Reaves.
Trenton	Edgefield	620	9	79.0	+0.6	97	*3	60	*10	32	8.11	+3.79	2.72		11	10	18	2	C. A. Long.
Trial	Berkeley	85	16	77.4	-0.5	98	30	59	*23	29	4.52	-1.41	1.79		11	9	18	3	Etsell Gaillard.
Walhalla	Oconee	1061	12	74.8	-0.6	95	29	54	1	37	2.47	-2.45	0.55		7	17	13	0	W. E. Pagan, Jr.
Wilmington, N. C.	New Hanover	52	33	76.4	-0.6	95	30	57	10	25	3.17	-2.33	0.96		11	9	19	2	Weather Bureau.
Winnboro	Fairfield	545	13	77.9	+1.4	99	30	57	23	32	6.78	+2.63	2.60		7	21	9	0	John W. Seigler.
Winthrop College (a)	York	690	3	77.2	+0.4	97	*12	54	24	34	4.98	+0.41	2.18		8	11	18	0	Geo. B. Green.
Yemassee	Beaufort	23	7	80.2	-0.9	100	*27	64	*3	30	2.61	-3.43	1.14		9	17	7	6	R. G. Smith.
Yorkville	York	660	14	79.3	+2.2	102	12	58	9	32	5.33	+0.34	2.46		7	9	14	7	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				78.5	+0.6	105	12	52	10	43	4.48	-0.38	4.40		9	15	10	5	SW.

a, b, c, etc., indicate number of days missing, with values as follow: a 1, b 2, c 3, etc.

\* On other dates also.

† Mean from 7 a. m., and 9 and 2 p. m. observations.



## STATIONS.

DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING COURSE OF MONTH.																																Monthly mean.										
STATIONS.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Max.	Min.								
Albany.	Albany.	72	65	71	99	67	96	60	98	72	98	72	98	63	70	99	68	94	68	96	70	99	70	99	68	94	66	99	59	91	59	94	66	98	60	96	96.9	65.7				
	Albany.	75	68	60	99	67	96	60	97	91	68	96	97	83	67	99	68	94	71	84	74	91	72	90	72	91	70	89	60	92	64	96	60	94	78	96	73	95	99.75	91.1		
	Albany.	86	61	60	95	92	70	93	67	89	70	96	92	83	64	99	64	93	70	88	71	91	71	90	70	89	64	91	68	94	58	96	74	95	68	93	72	95	99.79	91.0		
	Albany.	81	67	86	90	68	95	62	97	89	70	96	92	84	65	97	93	68	80	73	81	71	90	88	67	90	79	69	84	64	91	58	96	74	95	68	93	72	95	99.79	91.0	
	Albany.	96	71	94	73	98	72	95	72	91	94	70	97	75	98	78	94	79	99	66	98	69	90	67	93	68	96	65	99	68	94	58	96	74	95	68	93	72	95	99.79	91.0	
	Batesburg.	86	61	64	95	66	91	89	64	96	93	64	96	93	64	96	93	64	96	86	93	64	96	93	64	96	93	64	96	93	64	96	93	64	96	93	64	96	98.5	65.6		
	Beaufort.	80	67	80	84	65	90	78	97	87	70	80	68	97	85	93	72	88	68	91	72	87	73	92	71	73	90	73	69	87	66	95	91	75	93	77	93	77	98	91.8	71.5	
	Bennettsville.	84	60	80	62	92	68	91	66	93	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	90.5	67.1
	Blackville.	80	64	80	62	92	68	91	66	93	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	67	95	90.5	67.1
	Bowman.	90	65	91	66	90	64	95	67	91	64	90	63	91	64	93	68	84	65	96	59	92	61	93	66	91	84	68	83	73	88	72	93	64	94	66	92	67	90	68	94	91.8
Charleston.	Charleston.	79	71	79	72	82	70	86	72	83	70	83	73	83	73	83	73	83	73	83	73	83	73	83	73	83	73	83	73	83	73	83	73	83	73	83	73	83	85.9	73.3		
	Charlotte, N. C.	81	65	82	68	65	90	70	84	89	65	92	67	89	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	80.1	65.6		
	Cheraw (I).	81	65	82	68	65	90	70	84	89	65	92	67	89	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	80.1	65.6		
	Clemson College.	81	65	82	68	65	90	70	84	89	65	92	67	89	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	66	90	80.1	65.6		
	Columbia.	80	64	87	67	94	60	86	68	67	94	60	86	68	67	94	60	86	68	67	94	60	86	68	67	94	60	86	68	67	94	60	86	68	67	94	60	86	88.6	68.1		
	Conway.	83	59	84	61	59	92	59	88	63	64	86	62	93	67	81	65	84	57	90	58	91	63	69	61	83	68	60	87	55	90	58	91	63	69	61	83	87.8	66.4			
	Darlington.	83	59	84	61	59	92	59	88	63	64	86	62	93	67	81	65	84	57	90	58	91	63	69	61	83	68	60	87	55	90	58	91	63	69	61	83	87.8	66.4			
	Due West.	82	71	86	71	75	93	77	90	74	91	76	88	73	92	76	88	71	94	77	83	73	92	76	88	71	94	77	83	73	92	76	88	71	94	77	83	91.8	71.5			
	Florence.	80	66	87	57	63	66	94	66	60	96	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	91.8	71.5	
	Gaffney.	90	66	87	57	63	66	94	66	60	96	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	67	93	91.8	71.5	
Georgetown.	Georgetown.	81	64	86	65	66	94	69	66	85	70	89	72	94	77	67	83	63	67	88	73	89	71	93	73	89	72	86	70	83	65	87	78	96	85	97	84	98	95	91.2	69.4	
	Greenville.	86	64	86	69	65	90	64	89	65	92	67	96	66	95	67	87	67	87	67	87	67	87	67	87	67	87	67	87	67	87	67	87	67	87	67	87	67	87	95.8	62.2	
	Greenville.	80	50	84	60	85	60	84	64	86	64	84	64	84	64	84	64	84	64	84	64	84	64	84	64	84	64	84	64	84	64	84	64	84	64	84	64	84	90.8	64.8		
	Greenville.	87	65	85	64	63	93	64	94	74	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	90.9	64.8	
	Greenville.	87	65	85	64	63	93	64	94	74	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	90.9	64.8	
	Greenville.	87	65	85	64	63	93	64	94	74	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	90.9	64.8	
	Greenville.	87	65	85	64	63	93	64	94	74	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	90.9	64.8	
	Greenville.	87	65	85	64	63	93	64	94	74	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	90.9	64.8	
	Greenville.	87	65	85	64	63	93	64	94	74	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	90.9	64.8	
	Greenville.	87	65	85	64	63	93	64	94	74	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	66	95	90.9	64.8	
Heath's Springs.	86	62	88	68	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	68	95	86.3	66.7		
Kingsree(t).	Kingsree(t).	81	63	81	62	88	62	85	64	87	66	82	64	87	66	82	64	87	66	82	64	87	66	82	64	87	66	82	64	87	66	82	64	87	66	82	64	87	93.0	64.4		
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
	Liberty.	86	65	86	60	65	91	66	97	67	97	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	66	96	90.6	67.7	
Little Mountain.	81	64	88	62	92	62																																				



# TOTAL PRECIPITATION FOR JUNE, 1902.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JUNE, 1902.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken							1.05		.25				1.85	.50	3.30	1.20	.20		.85	.20		1.35						.30				3.70	
Allendale														1.56	1.58				T.	T.												7.35	
Anderson						.15		.81	.61	.05				1.18	2.44	.15	.26					.05										3.64	
Augusta, Ga.		T.		T.										1.50	2.60	.40					.35			.15		.70						4.55	
Barksdale														2.25	2.40		.25				.20											5.70	
Batesburg	.45							.38		T.				.51	.19	.06	T.		.63	.39	.01	.19		T.		.15		.30				6.38	
Beaufort	T.	.26			.42	.08			.02																							2.16	
Bennettsville																																6.91	
Blackville	.35	.01			.14	.02		.14	.60					.78	.35	.10		.34	2.40		1.85			.38								8.02	
Bowman				.35		.82		.65						.32		2.36					.96											4.25	
Calhoun Falls						.61									.35	1.70	.05			.22		T.	T.	T.	T.	T.	T.	T.	.25			1.82	
Camden	.65				.42			1.57	.25					.20	.02	.11	T.	T.	.21	.07	.01	.41	T.									4.07	
Charleston	.01	.77			.08	.08		.30	.08	.02	.34		.20	T.	.09	2.78	T.		.05	T.	T.			.24	.14	.04	.07	.09		.01		1.39	
Charlotte, N. C.					.01		.30	.08	.02					.05	.66	.02					.36			.03		.06	T.		.10				1.42
Cheraw(1)							T.	.14							.05	.71	.03		.04	T.		.27			.06	T.						4.28	
Cheraw(2)	T.							.02	.14					1.07	1.14			.11	.93	.07			.05	.11				.46				4.43	
Clemson College				T.			.20							.05	1.04	1.47	.01			.26		.45		.01				.50	.10			4.20	
Columbia	T.						.67	.01								1.80																2.62	
Conway	T.				.40									.02	.88	T.					.19			.22	T.	.65						4.07	
Darlington, near						T.	.56	.10						.55	1.13	1.70					.22											7.53	
Due West							.47							.80	.96	.72		1.00	.72	.50	.88				.08							6.08	
Edisto		.47			.92			.08	.22					.15	.97				1.04		1.15			.65	.27		T.					2.82	
Effingham	.15			.10			.85	.75						.10	1.30	.08			.04		.10			.23			.46					7.11	
Florence					T.			.45	.06					.77	4.40	.25			.05	.07	.55	.13	.04									4.00	
Gaffney								.02	.10					.50	.60	.20	.10	.40		.30												4.02	
Georgetown				.40				1.50			.42	.05		.92	.43				.14		.60			.17				.15	1.00			5.34	
Gillisonville			.40		.89			.42					.40	.54	.68	2.25	.63		.02		.74	.02							.20			5.38	
Greenville								.43						.07	2.00	.10											1.00			.14		3.77	
Greenwood	1.17						.40	.20						.24	.42	.16	.02		.94	.84	.97	.02					.16					4.20	
Heath Springs						.25		.02	.18					.24	.40	.18	.03		.90	.85	.94	.03										4.18	
Kingstree(1)						.25		.03	.17					T.	1.95	.24		.15	T.		.56					.11						3.01	
Kingstree(2)					T.	T.	T.	T.						.17	2.00	.46	.08		.16													4.82	
Liberty						.12		.09	.08	.08				.98	2.04	1.02																5.47	
Little Mountain				.12			.09							T.	.90	1.31	.01															4.22	
Longshore					.06										.90	1.31	.01															4.70	
Lugoff					.31			1.16	.30	.01				.60	.35				.63	.93	.19						.13					5.40	
Pinopolis							.75	1.12																								3.76	
St. Georges						.30			.80					2.00	.40	.35																5.05	
St. Matthews									.45	.95	.40			.45	.95	.40																4.83	
St. Matthews									.28	.58	.05			.28	.58	.05			.25	.45	.84	.08										3.61	
St. Stephens	.87						.10		.01					.12	1.75	.96	.47															2.19	
Saluda		.02		.64				.24	.09					.08	.41	1.95			.19	T.		.58	T.	T.								7.22	
Santuc								.12	.25	T.				.67	.29																	4.00	
Savannah, Ga.	.03					.06		.35	.11					3.25	2.34	.19		T.	.36			.70										2.28	
Seivern									1.00					.30	.60				.30	.10												6.43	
Smiths Mills	T.						.04	.47						.10	.50			.02														4.67	
Society Hill						.03	T.					.05		.31	3.40	.04					.59	.25		T.	.07	.06	1.32					2.81	
Spartanburg	T.					.10	1.12	.92						.12	1.59	.23			T.	.06	.25	.13										3.24	
Statesburg				.03			.32	.71						.95	.11		.22															3.54	
Summerville	.10	T.		.40				.92	.59					.12	.09	.64			T.	.09	.07	.37	.05									8.11	
Sumter	.01				.16			.07	.88					.62	.96	.04																4.52	
Temperance							.11	.36	.34					.15	2.72	1.58		.44														2.47	
Trenton				.24			.11	.36	.34					1.79	.25	.04																3.17	
Trial	.05					.23	.32	.62						.55	.45				.10	T.												6.76	
Walhalla								.29	.18					T.	T.	.37	.45		T.	T.	.14	.27	.21	T.	T.							4.98	
Wilmington, N. C.				.05										.98	2.60	.50																2.67	
Winnsboro						.30		1.50	.50					T.	.78	2.18																5.33	
Winthrop College							.07	.24			.09	.11			1.14	.33	.28	.20	.04														
Yemassee		T.			.36									T.	.53	2.46																	
Yorkville							.25	.48																									

\* Precipitation included in that of the following day.

T indicates trace, less than 0.01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR AUGUST, 1902.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

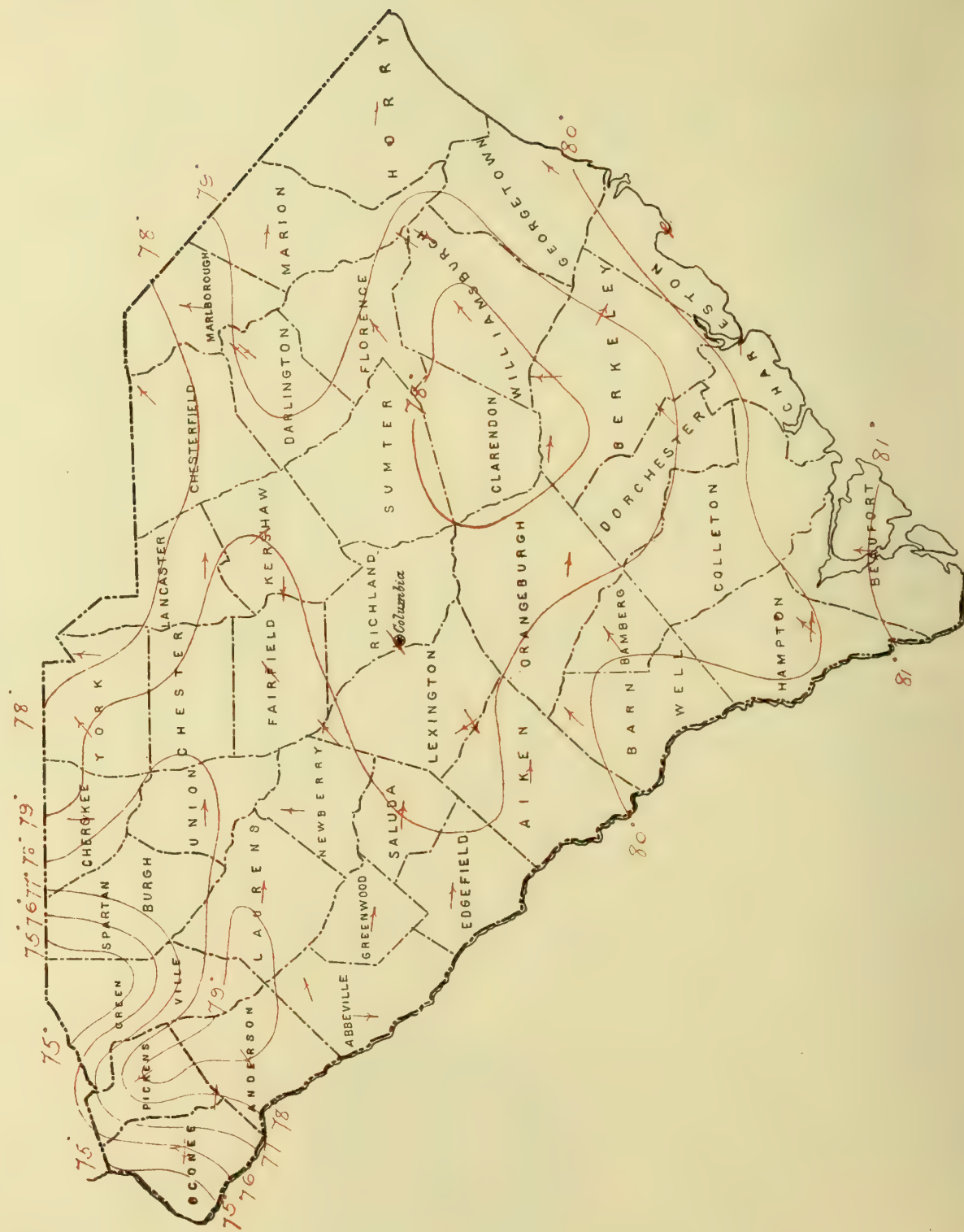


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR AUGUST, 1902.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

Vol. V. COLUMBIA, S. C., AUGUST, 1902. No. 8.

## PROGRESS OF FARMWORK.

Early in the month there was a period of excessive heat, lasting about a week, and again from the 18th to the 22nd abnormally high temperatures prevailed, but these hot spells were not materially harmful on growing crops on account of frequent local rains that kept the soil well supplied with moisture. There were localities that had no rain, or insufficient amounts, and there, no doubt, the high temperatures were damaging.

The rainfall for the month was generally below normal, although throughout the central counties a number of localities had amounts slightly in excess of their normals, while in the eastern and western divisions the deficiencies ranged from one to six inches. This does not indicate, however, that the month was an unusually dry one, or droughty, for such was not the case. Over probably two-thirds of the State the precipitation varied from 4 to 8 inches, and only in Spartanburg county was it generally below 2 inches. The normal August precipitation is over six inches. In most localities where drought existed at the close of July, copious rainfall relieved it during the first half of August.

There were hail-storms and violent winds, accompanying thunderstorms, on the 6th, 14th, 15th, 16th and 21st, but the damage to crops was confined to very limited areas, although causing almost total destruction in places.

Despite the apparently favorable weather that prevailed, cotton steadily deteriorated, due mostly to rust that caused shedding of leaves, squares and young bolls, but this deterioration, it is believed, should properly be called a failure to recover from the injury received in July and should not be ascribed to unfavorable conditions in August. Cotton came to maturity very early and bolls began to open freely during the first week, and by the end of the month half the bolls on early cotton were open, and picking had made rapid progress. Late cotton, and especially that planted on clayey soils continued to fruit throughout the month. Rains along the coast were of great benefit to sea-island cotton.

Early corn ripened, and some was gathered, while late corn improved materially and became very promising. The

last of a very fine tobacco crop was cut and cured. Rice ripened in good condition, and harvest was begun. All the numerous minor crops responded to the favorable weather and grew well. Army worms infested the eastern counties early in the month, and traveled westward through the central counties, destroying all grass fields in their pathway. Late peaches and apples were poor, but pears and grapes were fairly plentiful. In the trucking districts the soil was in fine tilth for fall planting.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The monthly mean for August, 1902, was 78.6° which is 0.7° below normal. The highest local mean was 80.6° at Beaufort, the lowest was 74.2° at Greenville. The highest maximum was 104° at Heath Springs on the 22nd, the lowest minimum was 55° at Heath Springs on the 29th making the State range 49°, which is also the greatest local range. The least local range was 30° at Charleston. The mean of the daily maximum temperatures was 88.8°, and of the daily minimum temperatures was 68.3°.

## Precipitation, in Inches.

The precipitation averaged 5.07 inches, which is 1.11 below normal. The greatest local amount was 8.68 at Batesburg, the least was 1.20 at Spartanburg. The greatest 24-hourly fall was 3.60 at Winthrop College on the 14th. There was an average of 12 days with rain, ranging from 4 at Georgetown to 17 at Lugoff.

Hail.—Hail was reported by voluntary observers as follows: Anderson, 22nd; Cheraw, 10th; Columbia, 15th; Greenville, 6th, 21st; Liberty, 14th, 21st, 22nd; Lugoff, 6th; Summerville, 20th.

Excessive Precipitation.—Batesburg, 1st, 1.03 in one hour, 17th; 1.90 in 30 minutes; 24th, 1.30 in 1 hour; Beaufort, 10th, 2.00 in 1:50 hrs; Columbia, 14th-15th, 2.76 in 17 hrs; Heath Springs, 14th, 2.60 in 4 hrs; Statesburg, 10th, 1.30 in 1:30 hrs; Winthrop College, 14th, 3.60 in 14 hrs.

Weather.—The average number of clear days was 12, of partly cloudy 10, and of cloudy 7.

Winds.—The prevailing direction of the wind was from the southwest at 20 stations, from the west at 12, the northeast and south at 6 each, the east and northwest at 3 each, the southwest at 2, and the north at 1.

High Winds.—Barksdale, 22nd; Bennettsville, Greenville, 21st; Blackville, 10th; Charleston, 20th; Columbia, 15th; Gillisonville, 11th; Liberty, 12th; Longshore, 14th; Lugoff, Santuc, 6th; Saluda, 11th, 16th; Trial, 16th.

## MISCELLANEOUS PHENOMENA (with dates).

Lunar Corona.—Lugoff, 17th.

Lunar Halo.—Charleston, 14th, 15th, 19th, 20th.

Parhelion.—Santuc, 13th.

Solar Halos—Charleston, 1st, 15th, 21st, 30th; Statesburg, 30.



Polar Bands (Aurora?).—Statesburg, 18th.

Meteors.—Bowman (very bright) 7th, 9:30 p. m.

Dense Fogs.—Anderson, 4th; Bowman, 30-31st; Cheraw, 8th; Heath Springs, 8th, 9th, 15th; Liberty, 4th, 5th, 24th; Longshore 10th; Lugoff, 8th, 24th, 25th; St. Stephens, 1st, 31st; Seivern, 9th, 13th; Smith's Mills, 18th; Society Hall, 7th; Statesburg, 8th, 10th, 13th, 15th.

Thunderstorms.—Aiken, 6, 12, 17; Allendale, 1, 2, 3, 8, 10, 14, 15, 19, 29; Anderson, 22; Barksdale, 14, 22; Beaufort, 1, 2, 3, 7, 8, 9, 10, 11, 13, 15, 19, 22, 23; Blackville, 1, 9, 10, 12, 13, 14, 15, 16, 19, 21, 22; Bowman, 1, 4, 6, 14, 15, 16; Charleston, 1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23; Cheraw, 1, 4, 5, 6, 9, 10, 11, 14, 17, 19, 21, 23; Columbia, 1, 4, 5, 6, 9, 10, 11, 14, 15, 16, 17, 21, 23; Darlington, 4, 6, 11, 23; Due West, 15; Gaffney 14; Gillisonville, 1, 2, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 22, 23; Heath Springs, 14, 15; Liberty, 4, 5, 6, 11, 13, 14, 15, 16, 21, 22, 23; Little Mountain, 1, 6, 9, 14, 15, 16, 21; Longshore, 1, 9, 11, 13, 14, 15, 16, 22, 23; Lugoff, 5, 6, 11, 12, 14, 16, 21; St. Matthews, 15, 16; Saluda, 11, 13, 16, 22; Santuc, 1, 4, 6, 9, 14, 15, 16, 21, 22; Seivern, 11, 15th; Society Hall, 4, 5, 6, 21; Statesburg, 1, 2, 4, 5, 6, 10, 11, 14, 15, 16, 21, 23; Summerville, 1, 4, 6, 10, 14, 15, 16, 20, 21, 22, 23; Trenton, 2, 4, 9, 10, 11, 13, 14, 16, 19, 21; Trial, 1, 5, 10, 14, 16, 20, 21; Winthrop College, 1, 4, 5, 10, 13, 14, 21, 23; Yorkville, 14, 24.

#### REMARKS BY OBSERVERS.

Allendale.—Fairly good weather prevailed during the entire month; the first part having been unusually hot and humid, the latter part cooler and more favorable for harvesting crops, which are fairly good.—R. D. Peeples.

Barksdale.—The first 20 days were harmful to cotton, which shed its entire August crop. Corn is better than was expected.—E. E. Putnam.

Batesburg.—The rains of the month were fine for late crops. The yield of early crops is much less than was expected. Cotton was damaged by the rainfall.—E. J. Hite.

Bennettsville.—Cotton opened to the top. Corn was hurt by drought. Minor crops doing well.—John L. McCall.

Blackville.—Monthly mean temperature  $0.3^{\circ}$  below, and precipitation 0.87 below normal.—G. D. C. Lange.

Bowman.—Fodder was gathered in fine condition, as most of the rains occurred at night. Cotton being gathered rapidly, as the weather was favorable for picking. Early corn was harvested.—B. O. Evans.

Gillisonville.—Month hot with low relative humidity. Many thunderstorms during the nights, but the showers were

scattered. Cotton opened prematurely and many plants died. Minor crops did well.—Sam. P. Saltus.

Greenville.—Light fall of hail on 6th with unusually large stones. A severe wind and hail storm on the 21st, with much loud thunder and vivid lightning.—Mrs. S. A. Crittenden.

Heath Springs.—The corn crop is good. Some cotton was picked, but the crop is short. Minor crops good.—J. A. Weaner.

Liberty.—There were several severe hail storms in this vicinity, that covered about ten miles square, that damaged crops seriously. High winds also damaged crops to some extent.—Jno. T. Boggs.

Longshore.—A severe wind storm on the 14th, west of this station, with grand electric display on the 14-15th.—W. G. Peterson.

Lugoff.—The thunderstorm of the 15th was the most severe in years. Cotton opened rapidly. Weather favorable for farmwork.—W. J. Burdell, M. D.

St. Matthews.—Severe thunderstorm from 11:30 p. m., 16th, to 1 a. m., 17th, during which the railroad depot was struck by lightning and destroyed.—J. S. Wannamaker.

Santuc.—Numerous light rains occurred, but until near the end of the month there was none that was greatly beneficial. High winds dried the lands. On the night of the 15th, the most vivid lightning and heavy thunder occurred, frightening people.—E. W. Jeter.

Society Hill.—The most beautiful electric display on the 6th, I ever beheld. Great deterioration of cotton and corn crops from excessive heat in July and first ten days of August. Cotton maturing early.—J. J. Lucas.

Statesburg.—Plentiful rains have fallen during this month and were very beneficial to all growing crops. On sandy lands much cotton was badly injured by drought and burning suns of July, and has not recovered. On well-fertilized clay soils the plants made new growth this month, and promise a good top crop.—W. W. Anderson, M. D.

Summerville.—Hail storm on the 20th lasted 10 minutes. Hail the size of a medium marble. The sun shone during the whole storm.—Miss L. R. Gadsden.

Trenton.—Cotton nearly all open at the close of the month. Most of it remains in the fields as pickers are scarce.—C. A. Long.

Yorkville.—Much thunder in the vicinity, but very little at this point.—J. R. Schorb.



CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST, 1902.

STATIONS.	Counties.	Elevation—feet.	Length of record— years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Aiken	Aiken	565	1			101	*7	58	22		7.75		2.13		10	16	7	8	w.	C. F. McGahan.
Allendale	Barnwell	186	14	80.4	+0.5	99	21	63	31	25	3.35	-4.23	.85		9	19	5	7		R. D. Peoples.
Anderson	Anderson	764	1	79.0	+1.8	102	11	60	31	34	3.19	-2.63	1.07		8	14	14	3	ne.	R. B. Dean.
Augusta, Ga.	Richmond	134	31	79.5	0.0	100	21	63	31	26	4.47	-0.97	.99		14	16	10	5	ne.	Weather Bureau.
Barksdale	Laurens	780	1	79.0		101	21	62	*24	33	2.25		1.00		4	20	9	2	w.	E. E. Putnam.
Batesburg	Lexington	656	14	76.7	-1.5	98	21	60	*18	26	8.68	+3.07	1.90		11	14	12	5		E. J. Hite.
Beaufort	Beaufort	28	16	80.6	-1.1	99	21	65	26	23	5.62	-1.07	2.00		10	10	19	2	s.	S. M. Benton.
Bennettsville	Marlboro		1	78.6		99	21	58	18	33	3.28		.77		15	13	18	0	s.	Jno. L. McCall.
Blackville	Barnwell	296	14	80.1	-0.2	101	21	61	25	30	5.12	-0.87	1.59		15	10	19	2	sw.	G. D. C. Lange.
Bowman	Orangeburg	160	1	78.4		100	21	58	27	34	4.63		.80		10	21	8	2	w.	B. O. Evans.
Calhoun Falls	Kershaw	508	9								3.04	-4.34	.81		7	23	0	8	nw.	P. J. Pfeiffer.
Camden	Charleston	222	36								5.43	+0.51	1.18		15	12	7	12	e.	W. F. Hudson.
Charleston	Charlotte, N. C.	48	33	80.3	-1.0	99	20	60	28	23	3.04	-4.18	.90		12	4	24	3	sw.	Weather Bureau.
Cheraw (1)	Mecklenburg	808	24	76.7	0.0	95	21	61	29	29	3.74	-1.54	1.29		10	10	14	7	sw.	Weather Bureau.
Cheraw (2)	Chesterfield	144	14	77.2	-1.9	96	6	59	*18	29	3.34	-2.04	.55		15	9	10	12	sw.	W. R. Godfrey.
Clemson College	Oconee	144	9								4.97	-0.78	1.27		16	15	5	11	sw.	Jno. H. Powe.
Columbia	Richland	850	11	77.3	-2.8	99	20	58	30	36	3.17	-0.75	.82		10	12	15	4	w.	Prof. C. C. Newman.
Conway	Horry	351	15	78.5	-1.4	99	21	63	24	26	7.14	+0.29	2.76		16	7	16	8	ne.	Central Office.
Darlington	Darlington	25	11	79.4		98	21	59	25	27	8.25	+2.04	2.30		10	8	4	19	w.	P. Quattlebaum.
Due West	Abbeville	175	7	79.2		101	21	58	29	32	6.53	+1.99	1.72		14	14	11	6		E. R. McIver.
Edisto	Bamberg	740	1	78.6		98	21	62	31	29	3.05		.75		7	23	5	3	sw.	Rev. O. Y. Bonner.
Edlingham	Florence	127	9								6.86	+1.61	1.57		16	14	6	11	sw.	Miss Jerry Carter.
Florence	Florence	106	10								6.80	+1.06	1.50		11	15	4	12	sw.	H. B. McCall.
Gaffney	Cherokee	136	14	79.3	-1.2	100	4	60	27	27	4.22	-1.60	.96		10	17	1	13		H. K. Gilbert.
Georgetown	Georgetown	893	6	79.0		102	*7	56	29	40	3.51	-2.52	1.65		12	15	5	11	n.	B. F. Camp.
Gillisonville	Hampton	12	9	79.8	-1.0	97	20	62	30	26	4.55	-1.45	1.50		4	27	1	3	sw.	W. T. Turbeville.
Greenville	Greenville	50	7	79.7	-0.9	98	6	60	25	27	5.03	-3.61	1.31		10	18	9	4	sw.	Sam P. Saltus.
Greenwood	Greenwood	989	10	74.2	-2.9	94	*20	58	31	31	4.49	-1.07	.83		12	18	4	9		Mrs. S. A. Crittenden.
Heath Springs a.	Lancaster	671	14	78.4	-0.8	97	*9	60	*27	30	3.86	-1.66	.60		11	18	0	13	w.	M. M. Calhoun.
Kingstree (1)	Williamsburg		1	79.4		104	22	55	29	34	7.34		2.60		9	18	7	5	w.	J. A. Weener.
Kingstree (2)		54	14	77.3	-2.7	94	19	60	25	27	6.35	+0.27	2.04		12	12	8	11		M. Cullen.
Liberty	Pickens	54	8								7.01	+0.33	2.00		12	16	5	10	sw.	W. H. Matthews.
Little Mountain	Newberry	900	8	79.0	+1.6	99	*4	59	31	36	6.21	-1.62	1.51		11	14	13	4	se.	Jno. T. Boggs.
Longshore	Newberry	711	9	79.0	-1.2	102	6	61	24	30	6.18	+0.94	1.50		13	6	21	4	sw.	John M. Sease, M. D.
Lugoff	Kershaw	530	9	78.4	-0.5	101	21	60	31	34	5.39	+0.09	1.02		14	11	10	10	s.	W. G. Peterson.
Pinopolis	Berkeley	168	1	78.9		101	21	59	*24	30	5.68		1.35		17	16	9	6	nw.	W. J. Bardell, M. D.
St. Georges	Dorchester	54	9	79.4	+1.2						2.59	-6.72	.60		11	8	13	10	nw.	E. P. Ravenel.
St. Matthews	Orangeburg	109	14	78.8	-0.9	98	21	62	*25	26	4.88	-1.52	1.90		14	16	4	11		W. B. Rayson.
St. Stephens	Berkeley	269	14	78.6	-1.8	96	*6	63	26	24	6.54	+0.22	2.20		15	17	4	10		J. S. Warramaker.
Saluda	Saluda	73	10								5.85	-1.97	1.23		13	14	6	11	s.	C. T. Shuler.
Santee	Union	536	1	79.0		101	*6	58	31	36	4.80		.94		15	15	12	3	sw.	Alvin Etheridge.
Savannah, Ga.	Chatham	512	9	77.8	0.7	101	*6	58	*24	36	4.33	-0.76	.72		16	7	19	5	w.	E. W. Jeter.
Seiverna	Aiken	71	33	81.1	0.5	101	21	69	30	24	6.30	-1.60	1.85		13	12	16	3	sw.	Weather Bureau.
Smiths Mills	Williamsburg	482	1	78.5	-1.8	100	21	56	*28	31	5.51	-0.93	1.02		13	12	15	4	se.	J. F. Lyles.
Society Hill	Darlington	62	7								6.92	+0.25	1.60		11	15	4	12	ne.	H. van Keuren.
Spartanburg	Spartanburg	192	11	78.4	0.0	90	*4	61	*17	25	4.87	-0.75	.97		12	13	10	8	sw.	J. J. Lucas.
Statesburg	Sumter	875	11	77.4	-1.6	99	21	59	*18	34	1.20	-4.33	.33		6	14	5	12		F. P. Robinson.
Summerville	Dorchester	500	22	78.4	+0.7	97	21	62	24	24	7.45	+2.32	1.90		15	11	9	11	sw.	W. W. Anderson, M. D.
Sumter	Sumter	75	5	78.2	-1.8	97	21	60	28	25	6.82	-2.62	1.74		14	14	10	7	sw.	Miss L. R. Gadsden.
Temperance	Marion	169	1																	Prof. W. A. Buckner.
Trenton	Edgefield	100	4	79.4	-1.0	103	21	56	17	34	3.85	-1.62	1.28		10	19	7	2	w.	J. R. Reeves.
Trial	Berkeley	620	9	78.6	-1.8	98	8	60	23	30	5.08	-1.82	1.58		11	9	19	3	w.	C. A. Long.
Walhalla	Oconee	85	16	77.8	+0.1	99	21	59	25	29	5.30	-2.32	1.46		10	11	13	7	w.	Etsell Gaillard.
Wilmington, N. C.	New Hanover	1061	12	75.6	-1.1	98	18	57	31	35	3.35	-2.57	.95		6	12	11	4	e.	E. F. Pagan, jr.
Windsboro	Fairfield	52	33	77.4	-2.0	94	3	61	18	24	2.35	-4.38	.59		13	9	20	2	sw.	Weather Bureau.
Winthrop College	York	545	13	78.7	+0.7	102	6	62	*24	29	5.54	+0.74	2.98		11	13	13	5	sw.	John W. Seigler.
Yemassee	Beaufort	690	3	77.3	-0.7	98	6	59	29	27	7.11	-2.73	3.60		11	13	16	2	s.	Geo. B. Green.
Yorkville	York	23	7	80.4	-1.2	99	21	63	*25	26	7.49	+0.72	2.20		10	16	6	9		R. G. Smith.
		680	14	79.1	+1.2	100	6	62	29	28	2.69	-2.27	.54		10	6	19	6	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				78.6	-0.7	104	22	55	29	40	5.07	-1.11	3.60		12	14	10	7	sw.	

! Maximum thermometer not standard.      + Minimum thermometer not standard.      § Exposed not standard.      \* On other dates also.  
a indicates 1 day missing, b, 2 days, etc.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING AUGUST, 1902

[illegible]

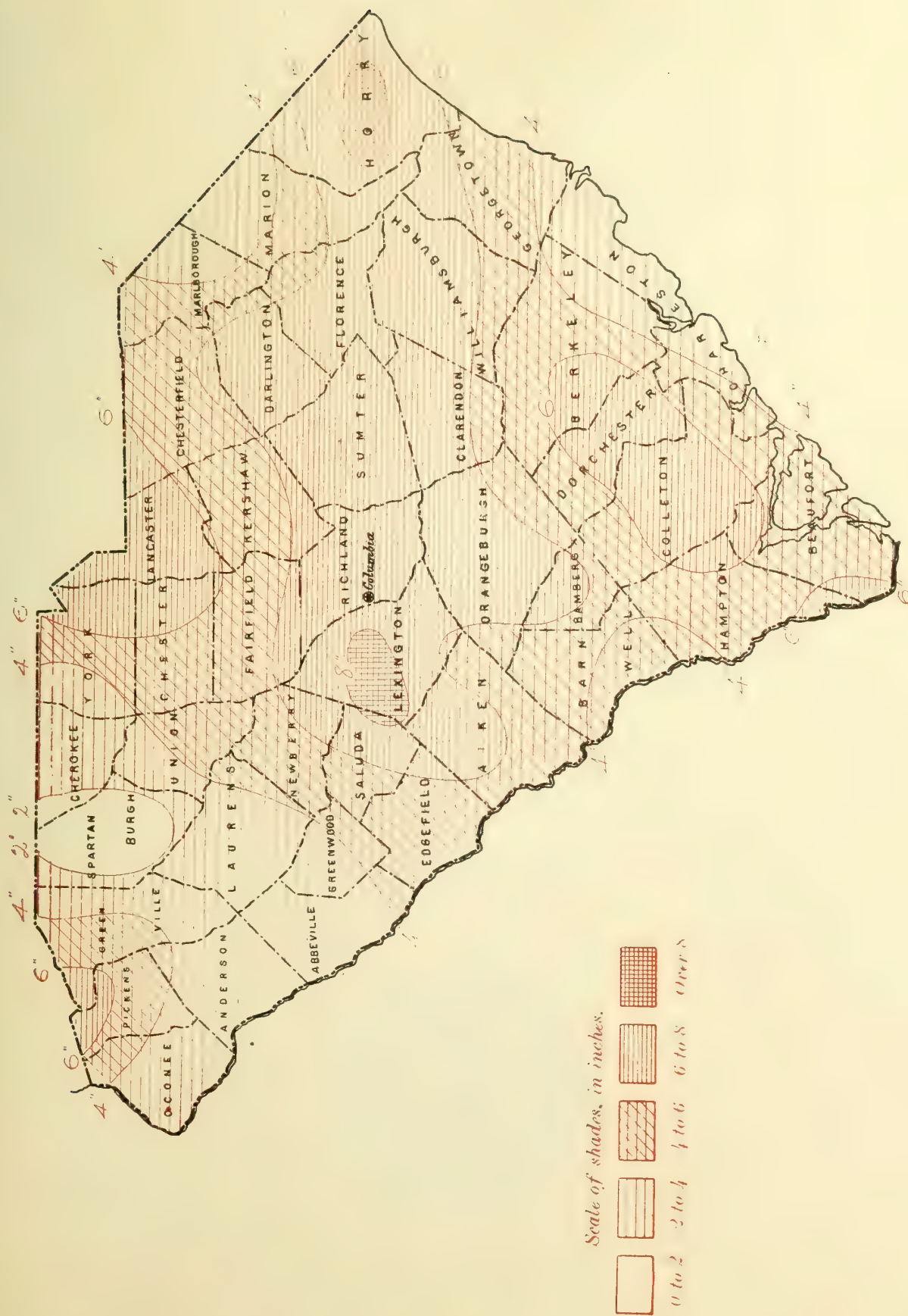
Maximum from 2 p. m., Minimum from 7 a. m. observations.

Single figures 1, 2, 3, etc., indicate 101, 102, 103, etc.

\* 100.



TOTAL PRECIPITATION FOR AUGUST, 1902.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1902.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken	.25					.75	.35					1.50	.50			.30	.35		1.75	.60	T.				.75	.20		1.10				7.75	
Allendale	.35	T.	.20					.20	.20	.60	.85			1.07		.23	.35	.05			T.						.33	.23	.43			3.35	
Anderson				T.																.34	.01	T.						.16	.49	.01		3.19	
Angusta, Ga.	.42	.06		.19						.65	.99	T.	.05	T.		.32	.64				T.					1.00	.60					2.25	
Barksdale																											.30	.50	1.10			8.68	
Batesburg	1.03						T.		.13	2.00	.05		1.10		.30	.10	.95	1.90			.10				1.30			.30	.16	.49		5.62	
Beaufort	1.78	.02																				.01	T.					.13	.08			3.28	
Bennettsville	.21				.13	.31	.15		.41	.77	.01	.12			.14		.05	.08					.10		.57			.09	.14	.45		5.12	
Blackville	.24	.01								.02	.84		.50		.02	1.59	.05	.49			.01			.63				T.	.40			4.63	
Bowman	.80			.35		.45				.18	.10				.55	.45	.70						.12				.22	.44	.56			3.04	
Calhoun Falls		.81	.71																.09				.15		.08		.19	.75	.27			5.43	
Canden		.41	.04		.05		1.18				.11	.07	.88		.71	.45							.60	.30				T.	.21		T.	3.04	
Charleston	.15	.32	.45				.38		T.	.05	T.	T.	T.	T.	.06		.20	.15			.17						T.	.43				3.74	
Charlotte, N. C.	.57		T.	.07		.30			.01	T.	.22		.09	1.29			T.	.54			T.			.13	.05	.37		.24	.02	.10		3.34	
Cheraw(1)	.07	.55			.02		.12			.05	.41	.32			.35								.15	.29	.11		.24	.03	.07			4.97	
Cheraw(2)	.22	1.01			.02		.24			.05	1.27	.27			.35								.64	.24	.06		.47	.18	.15			3.17	
Clemson College				.82									.07		.42	.12							.01	T.	.57			.40	.25	.55		7.14	
Columbia	1.03	.26			.24		.03		.23	.01	T.	.13		1.68	1.06	.58	.09					1.18		1.13				T.				8.25	
Conway	1.20	.82			.23	.22	.65				.25					.15	.35					1.72					.03	.06	.11		.05	6.53	
Darlington	.03			1.07		.39				T.	.50			.22	.01	.02	1.22							.25			.37	.33	.67			3.05	
Due West		T.											.75	.40		.28							1.05	.52	.06		.04	.04	.24			6.86	
Edisto		.53	.12		.06	.16	.24				.92	.50			.60	1.30	.48								.75			T.	.09			6.80	
Effingham	.25				.25	.35	1.50			T.	T.		.80		.25	.75	.10						.60		.80							4.22	
Florence		T.			.96		.52			T.	T.	.51		.14	.05	.05	.50															3.51	
Gaffney				.10							.02						.04	.05				.03		.26	.84	.10		.09	.26	.07		4.55	
Georgetown	1.05	.75			1.25										1.50								T.	T.			.15	.58				5.03	
Gillisonville	1.31		.15				.03	.45	.60	.87				.20	.09								.83	.69	.18		T.	.53	.49	.25		4.49	
Greenville		.60	.15			.15					.58	.04		.20	.33	.02								.10				.60	.59	.50		3.86	
Greenwood													.18		.40		.08															7.34	
Heath Springs	1.50										.50	.32		2.60	.35													T.	.04			6.35	
Kingstree(1)		.52			.94	.49	2.04			T.	.26	.16			.12	.58	.58						.39		.23			T.	.02			7.01	
Kingstree(2)		.52	T.		1.41	.47	2.00			T.	.36	.11			.35	.62	.48						.42		.25							6.21	
Liberty		T.		.82							.05		.15	1.26		.66							.04	.31	.42		.84	.15	1.51	T.		6.18	
Little Mountain						.04			1.24	.02				.08	1.50	.67	.48															5.39	
Longshore	.43	.02							.13	.01	.58		.82	.22	.28	.32							.04	.67			.69	.35	1.02			5.68	
Lugoff	.32	.04			.07	1.35	.07				.10	.39		.60	.75	.34	.01										.27	.03	1.02			2.59	
Lugoff	.28					.18	.05		.60					.17	.09	.28							.15		.41				.13			4.88	
Pinopolis		.30	.35	.10	.09		.20				.90	.01			.38	1.90	.30															6.54	
St. Georges		.21	.16	.04	.05		.27				.28	.05			1.02	2.20	.38						.17		.90			.11	.45	.25		5.85	
St. Matthews	1.23		.19	.20		.18					1.18	.53			.17	.20	.25															4.80	
St. Stephens		.36	.01		.07		T.			.04	.02	.53		T.	.07	.34	.72	.10			.06		.69	.03	.01		.56	.05	.67			4.33	
Saluda		.63			.23		.13			.02	.02			T.	.07	.12	.34															6.30	
Santuc		.30	.61				.09		T.	.07	1.78	.01		.47	T.	.11	1.02	.93			.03		.07	T.	.43		T.	.32		.62		5.51	
Savannah, Ga.				.28			.84			.08	.01	.95		.18	T.	.05	.20	1.10						.10		1.00				.10		6.92	
Seivern	.92		T.		.25		1.60																.67		.41							4.87	
Smiths Mills	1.44	T.																														4.87	
Society Hill			.28			.84				.42	.97	.34		.38	T.		.33							.20	T.	.02			.12	.23	.30	1.20	
Spartanburg		T.								1.30	.27					.05	.45	.35						.01		.21		.08	.04	.70			7.45
Statesburg	.09	.43			1.90	.57				.19	.59	T.			.26	.34	1.74					.53	T.	.07	.48				.04	.07		.70	
Summerville	1.21			.02	T.	.58																											3.85
Sumter		.19	T.	T.	.04	.30			.10	1.28	.15			T.	.01								.98		.37			T.				5.08	
Temperance	.43	.19	T.						.35	1.04				.59			1.58	.28			.60							.40	.03	.96		5.30	
Trenton	.21	.04								1.05					.46		.95						T.	.32		.45			.02	T.	.26		3.35
Trial	1.46				.30										.65																	2.35	
Walhalla			.45		.15					.01	.06						.10															5.54	
Wilmington, N. C.	.37		.02	.02	.03	.40	.59		.09	.08				.06	2.98	.70	.04						.45	.02				.40	.35	.37		7.11	
Winnsboro									.06	.92				T.	3.60	.63	.09																7.49
Winthrop College	.12		T.	T.					.20	1.12	1.70				.26			1.05															2.69
Yemassee	2.20	T.						.51		.20					.37	.05				.23			.31	.24	.41		.26	T.	.54				
Yorkville	.08																																

T indicates trace, less than . or inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR SEPTEMBER, 1902.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

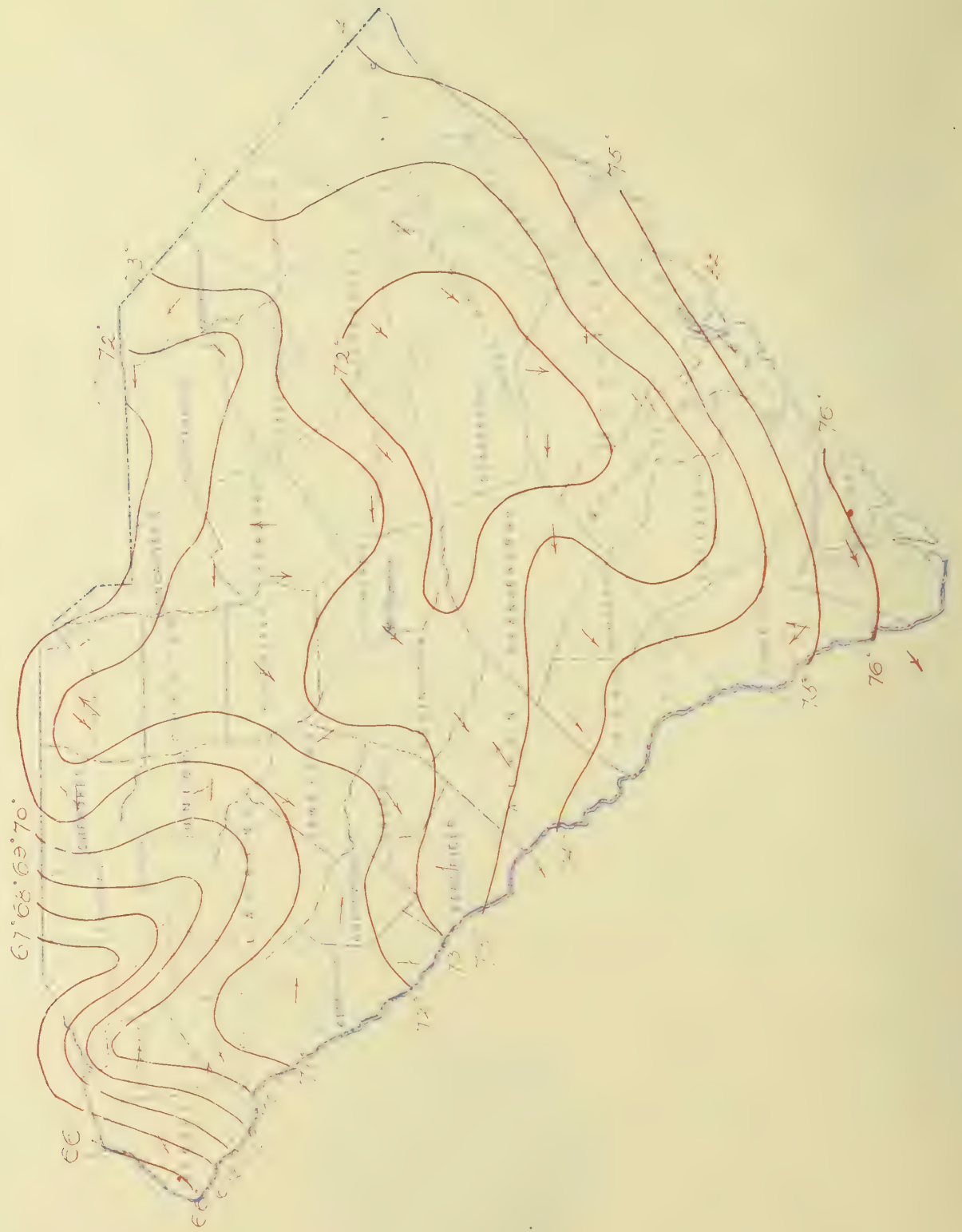
SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



SHOULDER NEAR TAPPAN AND TREVILLE, WASH CO., MICHIGAN - 1902





U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. V. COLUMBIA, S. C., SEPTEMBER, 1902. No. 9.

PROGRESS OF FARMWORK.

With the exception of a few hot days at the beginning of the month, the temperatures ranged slightly below normal until near its close when they were slightly above, with a humid warmth that stimulated growth of vegetation. The weather was at no time sufficiently cold to injure field crops, and was on the whole quite favorable for their development, which made rapid progress.

The rainfall was in places copious, and generally beneficial, although there were regions where the ground was too dry during the greater portion of the month for fall plowing, and for growing crops. The eastern half of the State had the least precipitation, although precipitation was quite unevenly distributed, and adjacent localities differed to a marked degree in their respective amounts. Where showers were most frequent, they interfered somewhat with haying and cotton picking, but no material damage resulted. On the whole, the weather was fairly good, in places excellent, for harvesting operations.

The late corn crop ripened under favorable conditions, and, with no check to its development, it became a very promising one. This is true of both bottom land and stubble corn. Early corn was gathered and used for feeding purposes.

Cotton stopped rusting and shedding during the first decade, and on heavy, well fertilized soils a top crop grew rankly, bloomed profusely and fruited heavily, while on light soils of low or moderate fertility, the stalks died. The new fruitage is of little commercial account, unless there is an absence of killing frost until a much later date than that of the average one for first killing frost in the Autumn. Matured bolls opened rapidly on both early and late cotton, and picking made equally rapid progress, except that in numerous localities pickers were scarce, and there picking did not keep pace with the opening. By the close of the month, a larger portion of the crop had been gathered than is usual in September, amounting in some instances to the total crop, and in others varying from half to three-fourths of it. Sea-island cotton improved, and developed into the finest crop in years.

Peas were cut for hay, but the yields were not as heavy as

expected. The rice harvest was scarcely interrupted, and its condition promised a yield above the average of recent years. Minor crops of all kinds made marked improvement, especially sweet potatoes and cane, the latter yielding syrup of superior excellence. Some progress was made in seeding oats. Army worms were about the only destructive insects that merit notice, and they were confined to paths of more or less width, over which they travelled westward destroying all grass fields that they crossed.

BAROMETER TABLE.

Stations.	Mean.	Highest.	Lowest.
Augusta .....	30.02	30.19	29.71
Charleston .....	30.03	30.19	29.74
Charlotte .....	30.06	30.29	29.65
Columbia .....	30.03	30.24	29.71
Savannah .....	30.01	30.14	29.76
Wilmington .....	30.02	30.20	29.68

FROST.

The near approach of the season for cold weather merits the caution to Voluntary Observers that frost data are of the utmost importance in climatology, and that the character of the frost, whether light, heavy or killing, should be carefully differentiated in recording it, as explained on page 24, paragraph 56, of Instructions for Voluntary Observers.

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean for September, 1902, was 72.1° which is 2.2° below normal. The highest local mean was 76.2° at Beaufort, the lowest was 66.5° at Greenville. The highest maximum was 98° at Aiken on the 1st, and at Beaufort on the 2nd; the lowest minimum was 34° at Clemson College and Walhalla on the 13th, at Santuc on the 15th, at Heath Springs on the 16th making the State range 55°. The greatest local monthly range was 51° at Seivern, the least 27° at Charleston. The mean of the daily maximum temperatures was 82.1°, of the daily minimum was 62.1.

Precipitation, in Inches.

The precipitation averaged 3.74 inches, which is 0.11 below normal. The greatest local amount was 7.97 at Beaufort, the least was 1.10 at Bowman. The greatest 24-hourly fall was 4.10 at Conway on the 8th. There average number of days with rain 8 ranging from 3 at Aiken and Cheraw to 12 at Charleston and Summerville.

Excessive Precipitation.—Blackville, 9th, 3.29 in 17 hrs. 21 mins.; Calhoun Falls, 8th-9th, 2.56 in 24 hrs.; Conway, 8th, 4.10 in 14 hrs. 30 mins.; Liberty, 8th-9th, 3.41 in 23 hrs.; St. Stephens, 3.02 in 24 hrs.; Smiths Mills, 3.20 in 24 hrs.; Spartanburg, 9th, 2.73 in 16 hrs. 30 mins.; Walhalla, 7th-8th,



2.60 in 22 hrs.

Weather.—The average number of clear days was 13, of partly cloudy 9, and of cloudy, 8.

Winds.—The prevailing direction of the wind was from the northeast at 23 stations, the east at 8, the southeast at 5, the southwest at 4, the south, west and north at 3 each, and the northwest at 1.

High Winds.—Beaufort, 30th; Charleston, 5th; Columbia, 9, 27, 28, 30th; Saluda, 29th.

#### MISCELLANEOUS PHENOMENA (with dates).

LUNAR HALOS.—Charleston, 19, 21; Gillisonville, 13, 17, 19.

SOLAR HALOS.—Charleston, 2, 8, 18, 21, 30; Santuc, 17; Stateburg, 13.

Fogs.—Blackville, 1, 3; Bowman, 1, 2, 3, 4, 5, 6, 7, 8; Cheraw, 2, 7; Charleston, 23, 24; Clemson College, 26; Columbia, 1, 8; Heath Springs, Little Mountain, 8; Liberty, 13, 27; Lugoff, 8, 13, 23, 24; St. Stephens, 1, 2, 4, 21, 24; Saluda, 8, 20; Seivern, 1, 3, 9, 23, 24; Society Hill, 2, 4, 8; Stateburg, Yemassee, 1; Summerville, 21, 24, 29.

THUNDERSTORMS.—Aiken, 17; Beaufort, 4, 7, 8, 9, 12, 24, 25, 27, 30; Blackville, 4, 8, 24, 28; Cheraw, 25; Charleston, 4, 7, 8, 9, 25, 27, 28, 30; Clemson College, 24; Columbia, 8, 27; Gillisonville, 7, 8, 24, 26, 27; Liberty, 3, 8, 24, 26, 27, 30; Little Mountain, 6, 27; Longshore, 8, 9, 24, 27, 30; Lugoff, 28; Saluda, 27; Santuc, 8, 9, 30; Society Hill, 30; Stateburg, 4, 8, 9, 25, 26, 27, 30; Summerville, 7, 8, 9, 25, 27; Trenton, 24, 27, 30; Trial, 8, 25, 30; Winthrop College, 4, 8, 26; Yorkville, 4, 5, 30.

#### REMARKS BY OBSERVERS.

Allendale.—About  $\frac{3}{4}$  of the cotton crop has been picked and marketed. The corn crop practically a failure.—R. D. Peeples.

Anderson.—The last week was the only one not good for picking cotton and saving hay, having been damp and rainy.—R. B. Dean.

Batesburg.—The weather was very favorable for gathering pea-vine hay, late fodder and corn. Peas, potatoes, turnips and gardens grew nicely.—E. J. Hite.

Beaufort.—Mean temperature  $1^{\circ}$  below normal; precipitation 2.63 above. From the 4th to the 9th, six consecutive days, 7.77 inches of rain fell, doing much damage to young turnips and other fall crops. Cotton promises a fine crop.—S. M. Benton.

Bennettsville.—The cotton crop was nearly all gathered. The rainfall of the 26th benefited all growing crops, as the ground had been very dry.—John L. McCall.

Blackville.—Monthly mean temperature  $1.6^{\circ}$  below nor-

mal; precipitation 0.49 above.—G. D. C. Lange.

Bowman.—The month was remarkably dry. No heavy winds nor rains. Unusually fine weather for gathering cotton; quality good.—B. O. Evans.

Gillisonville.—Month pleasant and favorable for harvesting. Seven-eighths of the cotton crop was picked, ginned and sold. Corn very poor. Large quantity of hay secured in fine condition.—Sam P. Saltus.

Liberty.—Weather conditions were favorable for all growing crops. Plenty of moisture. Cotton opened rapidly and all of it matured. There is no top crop, but fields are green with second growth.—Jno T. Boggs.

Little Mountain.—At the end of the month many fields of cotton were picked out. Nearly all of the early planted corn was housed, and the yield was satisfactory. Some oats were sown.—Jno. M. Sease, M. D.

Longshore.—Cotton opened earlier than ever before known. Picking was hurried and nearly all early cotton was picked. The corn crop did well.—W. G. Peterson.

Lugoff.—Over three-fourths of the cotton crop was gathered during the month. Much hay cut and saved in fine condition. The corn crop is fair. Peas poor.—W. J. Burdell, M. D.

Santuc.—The month seemed wintry, with a cool period after every rain. A severe wind storm on the 30th damaged open cotton in places in this vicinity.—E. W. Jeter.

Society Hill.—Cotton has been harvested in fine condition, and yielded about three-fourth of an average crop. Most of the migratory birds have departed. Temperature  $2.2^{\circ}$  and precipitation 2.42 inches below normal.—Maj. J. J. Lucas.

Stateburg.—Weather conditions were very favorable for harvesting matured crops, but a partial drought was damaging to growing ones. During the time of drought, cotton began to shed its young fruit, especially on new growth, that in places is very promising, but the disastrous result was warded off by good rains during the last week of the month.—W. W. Anderson, M. D.

Summerville.—Heavy fogs on the 21st, 24th, 29th. Slight earthquake tremor on the 28th at 3:58 p. m.—Miss L. R. Gadsden.

Trenton.—Mean temperature  $4.6^{\circ}$  below normal, and precipitation 1.45 inches below the September normal.—C. A. Long.



CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1902.

STATIONS	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky				Remarks and feet of water.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total amount of rain.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number overcast days.		
Aiken	Aiken	505	1	80.6		98	*1	64	10		3.64		1.65		3	18	7	5	sw.	C. F. McGahan.
Ailandale	Barrow	186	14	71.2	1.1	91	*2	55	11	27	1.15	2.51	1.40		4	15	4	11	ne.	R. D. Peoples.
Anderson	Anderson	704	1	71.5	-0.4	92	2	48	11	30	4.95	+1.25	1.15		8	16	11	3	ne.	R. B. Deane.
Augusta, Ga.	Richmond	134	31	71.0	1.0	91	3	53	16	28	2.33	-1.38	.87		9	17	9	4	ne.	Weather Bureau.
Barksdale	Laurens	780	1																	E. E. Pittman.
Batesburg	Lexington	656	14	70.4	-3.6	93	3	19	16	33	2.47	1.79	.97		5	14	6	10	ne.	E. J. Hale.
Beaufort	Beaufort	28	16	76.2	1.0	98	2	60	11	30	7.97	+2.63	1.90		9	11	11	8	ne.	S. M. Benton.
Bennettsville	Marlboro	1	1	72.6		93	2	45	15	33	1.98		.83		7	19	9	2	se.	Jno. L. McCall.
Blackville	Barnwell	296	11	73.6	1.6	93	27	52	*11	33	4.47	+0.49	3.29		7	12	14	4	ne.	G. D. C. Lange.
Bowman	Orangeburg	100	1	73.2		91	*2	50	11	32	1.10		.90		2	17	15	4	se.	B. O. Evans.
Calhoun Falls	Abbeville	508	9								6.26	+2.22	2.56		0	21	1	8	hw.	P. J. Pletcher.
Camden	Kershaw	222	36								2.25	1.54	.92		5	14	2	14	ne.	W. F. Hudson.
Charleston	Charleston	48	33	75.3	-1.0	90	27	63	10	20	3.73	-1.89	1.09		12	4	20	6	ne.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	70.1	0.0	89	2	48	14	24	3.18	+0.26	1.49		10	9	12	9	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	141	14	71.4	-2.2	91	*2	48	15	29	2.64	-1.16	2.00		3	9	11	10	ne.	W. R. Godfrey.
Cheraw (2)		144	9								2.41	-1.61	1.78		3	12	10	8	se.	Jno. H. Power.
Clemson College a.	Oconee	850	11	69.4	-3.9	92	2	43	13	35	5.12	+1.19	1.36		11	7	14	8	sw.	Prof. C. C. Newman.
Columbia	Richland	351	15	72.4	-2.6	90	2	51	15	25	2.86	1.26	1.50		10	8	14	8	ne.	Central Office.
Conway	Horry	25	11	73.4		92	4	54	11	32	6.03	+2.41	4.10		5	9	1	17	ne.	P. Quattlebaum.
Darlington	Darlington	175	7	73.0		93	*7	48	14	38	1.32	-1.45	.59		7	16	7	7	ne.	E. R. McVey.
Due West, a.	Abbeville	710	1	71.5		89	*2	51	14	24	5.42		1.84		7	21	4	5	sw.	Rev. O. A. Bonner.
Edisto	Bamberg	127	9								3.02	-0.26	1.12		9	14	9	7	ne.	Miss Jerry Carter.
Ellingham	Florence	106	10								1.76	-1.64	1.07		4	14	9	7	ne.	H. B. McCall.
Florence	Florence	136	14	72.1	-2.6	91	*2	49	23	37	1.16	-2.52	.90		4	13	2	15	ne.	H. K. Gilbert.
Gaffney	Cherokee	893	6	71.2		93	4	44	14	38	3.38	-0.54	.90		11	13	11	6	sw.	B. F. Camp.
Georgetown	Georgetown	12	9																	W. T. Turbeville.
Gilsonville	Hampton	50	7	74.4	-1.7	89	*2	55	11	27	5.10	+2.31	1.47		10	12	7	11	se.	Sam P. Sallis.
Greenville	Greenville	989	10	66.5	-4.1	87	2	44	*14	20	4.42	+0.35	1.40		8	15	5	10	ne.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	71.5	-2.0	95	2	46	*14	35	4.98	+0.42	1.30		8	16	2	12	w.	M. M. Calhoun.
Heath Springs	Lancaster	1	1	72.6		92	4	43	16	35	1.78		.90		5	24	6	0	se.	J. A. Weaver.
Kingsree (1)	Williamsburg	51	14	71.6	-3.7	87	4	50	10	27	2.17	-1.85	1.53		8	12	10	8	ne.	M. Cullen.
Kingsree (2)		54	8								2.46	-0.79	1.41		9	13	10	7	ne.	W. H. Matthews.
Liberty	Pickens	900	8	70.0	-3.2	92	2	45	15	31	5.62	-0.63	3.41		8	15	8	7	w.	Jno. T. Boggs.
Little Mountain	Newberry	711	9	73.0	-2.9	92	*2	50	*15	27	2.94	-0.56	1.18		9	11	13	6	se.	John M. Sease, M. D.
*Longshore	Newberry	530	9	71.4	-2.5	93	2	49	*11	32	4.71	+1.07	.88		11	11	1	9	ne.	W. G. Peterson.
Lugoff	Kershaw	168	1	72.8		92	*2	49	11	33	2.75		1.39		7	12	10	8	se.	W. J. Burdell, M. D.
*Pinopolis	Berkeley	54	9	73.4	-0.8	85	2	60	*11		4.47	+0.79	1.52		9	11	0	16	se.	E. P. Ravenel.
St. Georges	Dorchester	199	14	72.4	-2.5	89	3	56	11	27	4.60	-0.65	1.90		6	12	10	8	ne.	W. B. Raynor.
St. Matthews	Orangeburg	269	14	72.0	-3.1	88	3	56	15	29	2.55	-1.04	1.45		7	11	6	10	ne.	J. S. Wannamaker.
St. Stephens	Berkeley	73	10								6.30	+2.82	3.02		10	6	5	19	n.	C. T. Shuler.
Saluda d.	Saluda	536	1	71.4		93	3	45	16	35	2.94		.75		9	16	7	3	ne.	Alvin Etheridge.
Sautuc d.	Union	512	9	70.2	-3.0	92	2	43	15	35	3.49	+0.09	1.67		8	12	13	5	se.	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	76.3	0.0	90	4	62	15	19	3.83	-1.84	1.48		12	9	15	6	ne.	Weather Bureau.
Seivern b.	Aiken	482	1	72.6	-4.2	95	25	44	15	36	2.46	-0.55	.80		6	14	6	8	ne.	J. F. Lykes.
Smiths Mills	Williamsburg	62	7								6.95	+3.61	3.20		6	11	6	13	ne.	H. van Keuren.
Society Hill	Darlington	192	11	71.7	-1.5	89	3	51	14	26	2.00	-2.42	.59		6	17	8	5	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	11	69.4	-3.2	91	2	44	14	31	5.85	+1.68	2.73		9	16	3	11	ne.	F. P. Robinson.
Stateburg	Sumter	500	22	73.2	-0.5	90	3	54	15	24	3.10	0.07	1.13		7	11	8	11	se.	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	72.2	-2.8	87	*2	55	*10	27	5.56	+2.42	1.30		12	16	7	7	sw.	Miss L. R. Gadsden.
Sumter	Sumter	169	1	71.5		91	28	52	11	31	2.03		1.66		7	9	8	0	ne.	Prof. W. A. Buckner.
Temperance a.	Marion	100	4	73.3	-1.2	96	30	50	*10	39	3.24	+0.26	1.62		8	19	6	5	ne.	J. R. Reaves.
* Trenton	Edgefield	620	9	72.4	-4.6	90	*2	51	16	35	2.32	-1.44	.75		6	10	15	5	se.	C. A. Long.
* Trial	Berkeley	85	26	71.7	-1.8	89	30	50	10	30	3.57	0.40	.81		8	9	16	5	se.	Etsell Gaillard.
Walhalla	Oconee	1061	12	66.8	-3.6	89	2	43	13	39	7.40	+2.62	2.60		10	15	13	2	ne.	E. F. Pagan, jr.
Wilmington, N. C.	New Hanover	52	33	72.4	-2.0	88	4	55	18	21	3.57	-1.99	.88		11	10	9	11	ne.	Weather Bureau.
Winnboro	Fairfield	545	13	72.2	-0.7	91	2	51	15	27	2.51	-1.32	1.03		6	20	8	2	ne.	John W. Seigler.
Winthrop College	York	690	3	70.6	-2.6	90	2	46	15	27	4.31	+0.19	1.84		7	12	14	4	se.	Geo. B. Green.
Yemassee	Beaufort	23	7	74.0	-2.5	91	4	56	11	26	6.29	+3.27	2.09		9	13	8	9	ne.	R. G. Smith.
* Yorkville	York	650	14	72.1	-1.5	91	2	49	15	27	5.23	+0.85	1.52		8	11	12	7	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				72.1	-2.2	98	*2	43	*13	39	3.74	-0.11	4.10		8	13	9	8	ne.	

|| Maximum thermometer not standard.  
a indicates 1 day missing, b, 2 days, etc.

+ Minimum thermometer not standard.

\$ Exposed not standard.

\* On other dates also.



STATIONS.

Maximum from 2 p. m. Minimum from 2 a. m. observations.

Single figures 1, 2, 3, etc., indicate 101, 102, 103, etc.

\* 100.



# TOTAL PRECIPITATION FOR SEPTEMBER, 1902





## DAILY PRECIPITATION FOR SOUTH CAROLINA, SEPTEMBER, 1902.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken										1.30								T.	1.65		.75				1.24							3.64	
Allendale																									.15	.20					.10	1.75	
Anderson			.46	.15					.27	1.15									.79					.53	T.	.65					.95	4.95	
Augusta, Ga.				T.					.12	.03	.16		.01	T.					T.						.11	.26	T.				.87	2.33	
Barksdale																																2.47	
Batesburg											.45	.97													.25		.30	.50				7.97	
Beaufort				1.20	1.02	1.65	1.90	.40	1.10				.03							T.					.46	T.	.16			.05		1.98	
Bennettsville				.16						.56	.08	.22								T.	.09				.48			.18		.03		4.47	
Blackville	.09				.12					3.29	.28									T.					.20							1.10	
Bowman	T.									.90	T.																					6.26	
Calhoun Falls				.18	.12					2.56	.65									1.38	.16				.57		.42	.28				2.25	
Camden		T.								.92	.39									T.					.02	.29	.63					3.73	
Charleston			.01	.45	T.	.60	.03	1.02	.57	.01			T.	.21	T.					T.					.08	.01	.04	.70	T.	.12		3.48	
Charlotte, N. C.				.86	.24				.51	1.49	.01									.04					.02	.03	.10	T.				2.64	
Cheraw(1)										.32	.31														T.	2.00	T.					2.41	
Cheraw(2)																				T.					T.	1.78	T.				.39	5.42	
Clemson College			.29	.05					1.36	.99			.39						.15	.29				1.36	.01	.14	.23	.13	.29		.09	2.86	
Columbia				T.				.01	1.47	.04	.43									.03						.88						6.03	
Conway			.30							4.10	.60																					1.32	
Darlington		.26						.01	.59	.11										T.						.63		.75		.55		5.42	
Due West				.33					1.84					T.						1.14												3.02	
Edisto				.72	.40	.18	.22	T.	1.12	.09										T.												1.76	
Efingham			.45						1.07	T.																						1.16	
Florence	.05	.04							.90	.17																.09	.02	.20	.03		.01	3.38	
Gaffney				.65	.10			.06																									
Georgetown																				T.							.68	.19	.04		.57	5.10	
Gillisonville				.45			1.27	.23	1.47	.20																.60	.08					4.42	
Greenville				.90	.06				1.40	.82																.10		.35	.30			4.98	
Greenwood				1.30					1.18	.75																						1.78	
Heath Springs				.06			.02		.50																		.90					2.17	
Kingstree(1)					.12	T.	.10	.22	1.31	.14				.02	T.					T.							.12	.14				2.46	
Kingstree(2)					.12	.05	.38	.16	1.25	.24										T.							.12	.10				5.62	
Liberty		T.	.42						3.41																							2.94	
Little Mountain									.15	.20	1.18																.30				.30	4.71	
Longshore			.71	.10					.88	.36																	.62	.18	.69			.70	2.75
Lugoff									1.39	.05	.41																.02					.55	4.47
Pinopolis			.24	.31					.99	.32																		.36		.16			4.60
St. Georges						1.50	.16		1.90	.18																						2.55	
St. Matthews						.42	.22		T.	1.10	.35																					6.30	
St. Stephens		.73	.22		.28	.47		.24		3.02	.09																					2.94	
Saluda				.17		.06			.11	.18	.34																					3.49	
Sautuc						.17			.72	1.67																						3.83	
Savannah, Ga.		T.		T.	.18	.01	.55	.15	T.	1.48	.01			.24	.02																	2.46	
Severn		T.	T.						.19	.44																						6.95	
Smiths Mills		.20	1.00	T.				.50		3.20	.80																					2.00	
Society Hill					.22				.47	.35																						5.85	
Spartanburg					.46	.02				2.73	.95																					3.10	
Stateburg									1.13	.01	.20																					6.4	
Summerville			.04	.38	.63	.02	.34	.35	.81	1.30																						2.03	
Sumter							.01	.05		1.66	.04																					3.24	
Temperance			.06					.03		1.62	.18																					2.32	
Trenton			.03							.43																						3.57	
Trial			.80					.09		.81	.16																					7.40	
Walhalla			.30		.50				2.60					.80																		3.57	
Wilmington, N. C.			.22							.65	.45	.88			.67	.05																2.51	
Winnboro									1.03	.27																						4.31	
Winthrop College				1.84			.08		.50	1.32	.15																					6.29	
Yemassee					.96	T.	2.09	T.	1.90	.30			.05	T.																	1.52	5.23	
Yorkville				T.	.94	.57	.02		.45	1.44																							

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR OCTOBER, 1902.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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BY

J. W. BAUER,

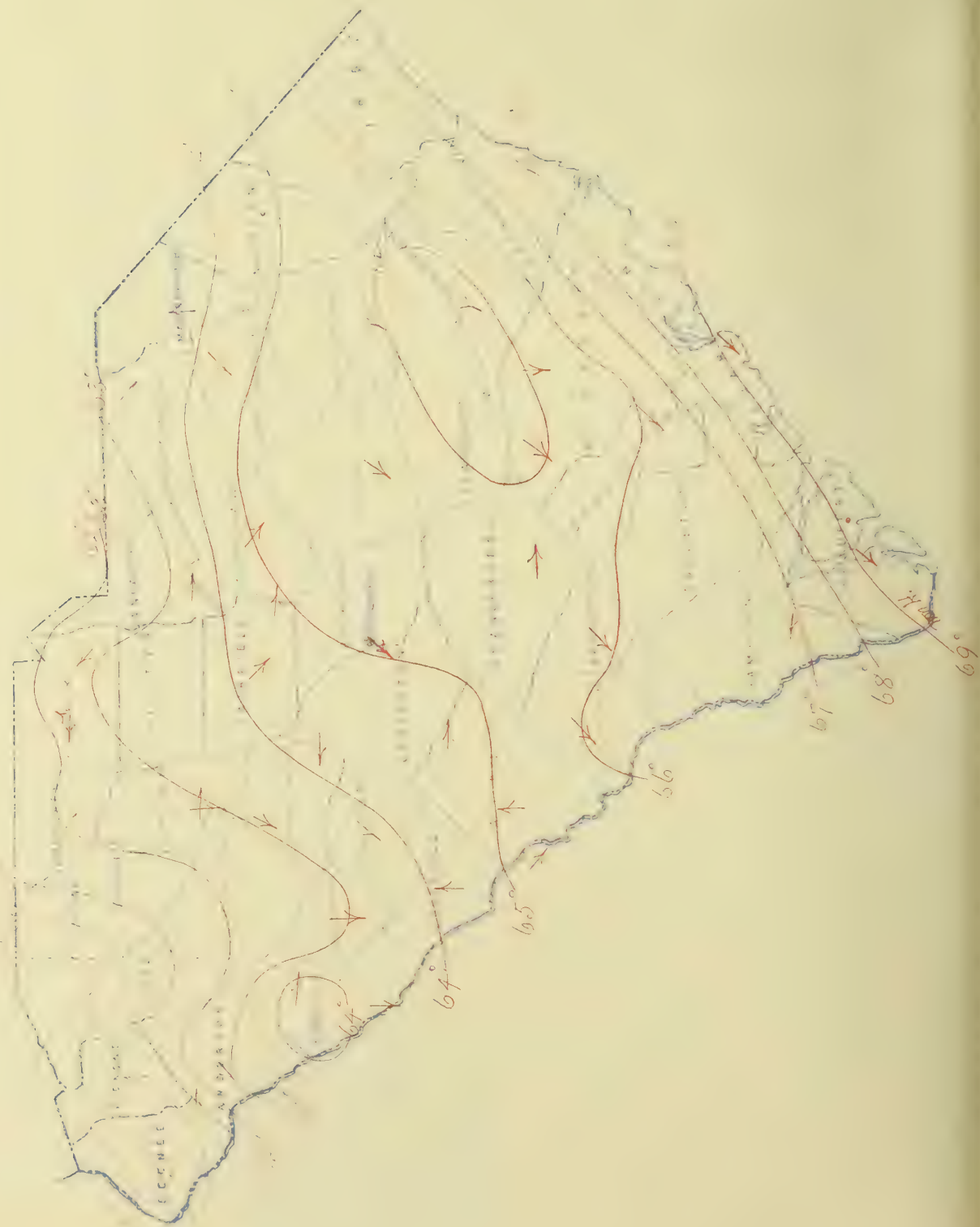
SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



MONTHLY MEAN TEMPERATURE AND PRECIPITATION WINDS FOR OCTOBER 1898





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. V. COLUMBIA, S. C., OCTOBER, 1902. No. 10.

## PROGRESS OF FARMWORK.

Although the temperature fell to, or below,  $40^{\circ}$  in nearly every section of the State, except along the immediate coast, there were but three mornings with general frosts and none of them were severe enough to materially injure vegetation except the most tender. The temperature was at times low enough to stop the growth of field crops and hasten their maturity, while hardier vegetation grew steadily throughout the month.

The average precipitation was in excess of the normal, and nearly every section shared in this excess, but over a few small areas there were slight deficiencies. The rainfall was quite evenly distributed, although it was lightest in the mountain districts. There was also a number of small localities where the precipitation was greatly in excess, to almost double the usual amount for October, and such localities were scattered over the greater portion of the State. This was more remarkable as few, if any, of the rainstorms were convectional in their nature. The rainstorms were generally of short duration, with long intervals between them, which afforded ample opportunity for completing the harvesting and gathering of field crops, so that by the close of the month rice harvest was practically finished, corn all housed, cotton picking finished, most of the hay crop saved and some sweet potatoes dug. The yields of the minor crops were generally good, although the pea crop was only fairly good. Cane yielded syrup of superior quality. The cotton crop varied greatly, and ranged from exceedingly poor to very good; some fields have a good top crop that was favored by the prevailing weather and with a continuation of warm weather and absence of killing frost will eventually open, as opening began late this month.

In the coast districts, fall truck did well, and looked promising, with sufficient moisture to sustain growth, but not enough to prove harmful.

Lands were in fine tilth for fall plowing, and this work made rapid progress, so that in places nearly the whole oats crop was sown, and generally the larger portion of it has been seeded. Early sown oats came up to good stands.

Lands were also prepared for wheat, but sowing was generally deferred, awaiting cooler weather, to avoid damage by the hessian fly.

The month as a whole was favorable for farmwork.

BAROMETER TABLE.

Stations.	Mean.	Highest.	Lowest.
Augusta .....	30.08	30.53	29.70
Charleston .....	30.07	30.51	29.66
Charlotte .....	30.10	30.56	29.56
Columbia .....	30.10	30.56	29.68
Savannah .....	30.05	30.48	29.69
Wilmington .....	30.06	30.54	29.56

## HALOS AND PARHELIC CIRCLES.

Solar halos and parhelic circles are frequently reported, sometimes under the names of mock suns, or sundogs, and as the latter terms are not well understood by some voluntary observers, the following description taken from the June, 1902, number of the Monthly Weather Review may be of general interest:

"A great variety of circles have been observed about the sun; they may be divided into the three following classes:

"1. Halos, having the sun at the center. 2. Parhelic circles, passing through the sun. 3. Contact circles, tangent to the halos.

"At least three varieties have been observed: a, the most common of all having a radius of  $22^{\circ}$ ; b, a halo of  $46^{\circ}$  radius; c, the great circle of Hevelius, having a range of  $90^{\circ}$ . The first two of these are red on the inner side, or the side nearest the sun, while the third is nearly white.

"Four parhelic circles have been described; one parallel to the horizon, one perpendicular to it, and two very faint ones about  $30^{\circ}$  on either side of the latter. The four circles are white.

"A great number of contact circles have been observed tangent to the halos, most commonly occurring at the highest and lowest points of the  $22^{\circ}$  and  $46^{\circ}$  circles. The one tangent at the highest point of the  $46^{\circ}$  circles, and both those tangent to the  $22^{\circ}$  circle, have been described as horizontal, or circumzenithal, circles, but no description is known of a horizontal circle tangent to the lowest point of the  $46^{\circ}$  circle previous to that given by Mr. Warren. It frequently happens that the tangent circle alone is observed, the halo itself being invisible.

"At the numerous intersections of these various circles, parhelia, mock sun, or sundogs, are formed, often of great brilliancy."

CORRECTION.—September, 1902, report, page 5, maximum temperature at Lugoff,  $92^{\circ}$  on the 2nd and other date, should be  $93^{\circ}$  on the 3rd.



## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean for October, 1902, was 63.2° which is 0.8° below normal. The highest local mean was 69.7° at Beaufort, the lowest was 59.0° at Greenville. The highest maximum was 95° at Heath Springs on the 2nd, the lowest minimum was 30° at Clemson College on the 26th, make the State range 65°. The greatest local range was 62° at Heath Springs, the least 37° at Charleston. The mean of the daily maximum temperatures was 74.3°, of the daily minimum temperatures 52.0°.

Frost, First of the Season, Light.—Clemson College, 14; Anderson, Darlington, Greenville, Greenwood, Heath Springs, Santuc, Summerville and Winthrop College, 15; Bennettsville, Blackville, Bowman, Camden, Cheraw, Columbia, Conway, Edisto, Effingham, Gaffney, Longshore, Lugoff, St. George, St. Matthews, St. Stephens, Saluda, Smith's Mills, Trenton and Yemassee, 16; Society Hill, 28; Little Mountain and Yorkville 29.

Frost, First of Season, Heavy.—Camden, Cheraw, Columbia, Conway, Due West, Edisto, Effingham, Gaffney, Greenwood, Kingstree, Longshore, St. George, St. Matthews, St. Stevens, Smith's Mills and Yemassee 29.

Frost, Light, Other Dates of.—Anderson, Trenton, 29; Bennettsville, Cheraw, Little Mountain, 30, 31; Blackville, 17, 29, 30; Bowman, 17, 30, 31; Camden, Columbia, Lugoff, Saluda, Summerville, Yorkville, 30; Conway, 17, 29, 30, 31; Darlington, 28, 29, 30; Greenwood, 28; Heath Springs, 16; Longshore, 23, 30, 31.

## Precipitation, in Inches.

The precipitation averaged 4.40 inches which is 1.18 above normal. The greatest local amount was 7.34 at Batesburg and Winnsboro; the least 2.24 at Anderson. The greatest 24-hourly fall was 4.82 at Conway on the 10-11th. The average number of days with rain was 7, ranging from 4 at Bowman and Gillisonville to 9 at Cheraw and Gaffney.

Excessive Precipitation.—Batesburg, 28th, 2.25 in 10 hrs.; Beaufort, 10th, 3.38 in 12 hrs.; Conway, 10th-11th, 4.82 in 11 hrs.; Gillisonville, 27th-28th, 2.89 in 24 hrs.; Little Mountain, 26th-27th, 2.64 in 24 hrs.; Lugoff, 11th, 2.25 in 9 hrs.; Santuc, 26th-27th, 4.45 in 24 hrs.; Trial, 26th-27th, 2.85 in 24 hrs.; Yorkville, 27th, 2.26 in 24 hrs.

WEATHER.—The average number of clear days was 19, of partly cloudy 5, and of cloudy 7.

WINDS.—The prevailing direction of the wind was from the northeast at 18 stations, the west at 7, the north and northwest at 5 each, the south at 4, the east at 3, and the southeast and southwest at 1 each.

HIGH WINDS.—Beaufort, Heath Springs, Longshore, 11; Charleston, 27; Columbia, 11, 28; Gaffney, 28; Liberty, 5, 11, 21, 28.

## MISCELLANEOUS PHENOMENA (with dates).

Parhelion.—Santuc, 10.

Luna Corona.—Blackville, 14.

Solar Halos.—Charleston, 4, 6, 7, 8, 9, 12, 13, 18, 24; Santuc, 12.

Lunar Halos.—Blackville, Columbia, 9th; Charleston, 7, 8, 9, 12, 13, 20; Gillisonville, 11, 14, 15, 17; Little Mountain, 9, 18; Saluda, 10; Santuc, 12; Stateburg, 9, 12, 13, 21.

Fogs, dense.—Blackville, 18; Bowman, 17; Charleston, 18, 20; Saluda, 25; Stateburg, 3, 19; Summerville, 3, 18, 20; Sumter, 3, 4.

Thunderstorms.—Aiken, 6; Beaufort, 21, 27; Blackville, 4, 10; Bowman, 4, 27; Charleston, Lugoff, Summerville, 1; Gillisonville, 5, 26; Longshore, 4.

## REMARKS BY OBSERVERS.

Beaufort—Mean temperature 2°, and precipitation 3.68 inches above normal. More rain fell this month than in the last five months of 1901. Some cotton damaged by the rain. Cotton is a good crop, but does not come up to expectation.—S. M. Benton.

Bennettsville.—Frost on the 30th was heavy enough to hurt sweet potato vines.—John L. McCall.

Blackville.—Mean temperature 0.1°, and precipitation 1.66 above normal.—G. D. C. Lange.

Darlington.—The light frost on the 15th, 28th, 29th and 30th did perceptible damage.—E. R. McIver.

Gillisonville.—Month dry and favorable for harvesting. An abundance of good hay was saved. Very little cotton left in the fields. Cane grinding begun and syrup is of good quality.—Sam P. Saltus.

Greenville.—The frosts did no injury.—Mrs. S. A. Crittenden.

Heath Springs.—Corn about all gathered, with the yield good. Peas fairly good. Cotton about all sold; yield somewhat better than was expected. Not much grain has been sown.—J. A. Weaner.

Liberty.—Beautiful weather throughout the month. Rain were distributed as needed, although much hay and fodder was partly spoiled in the fields, yet little was seriously damaged. Splendid pea crop. Wheat and oats being sown.—Jno. T. Boggs.

Little Mountain.—The greater portion of the oats crop has been sown, and stands are good. All crops except sweet potatoes have been gathered.—Jno. M. Sease, M. D.

Longshore.—Enough frost on the 29th to nip tender vegetation. Splendid month for farmwork. Crops nearly all gathered. Cotton crop short. Corn fine. Peas very good.—W. G. Peterson.

Lugoff.—Some cotton still in the fields. Corn mostly gathered, as well as hay. Cotton is less than a full crop. The pea crop is fine.—W. S. Burdell, M. D.



CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER, 1902.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature in degrees Fahrenheit.						Precipitation in inches.				Sky					Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		Prev. wind direction and force.
Aiken	Aiken	565	1	69.6	...	98	3	35	*29	37	4.42	...	1.55	...	5	17	5	9	s.	C. F. McGahan, M. D.
Allendale	Barnwell	186	11	66.7	+2.5	88	1	40	29	30	5.33	+2.83	1.75	...	8	16	3	12	ne.	R. D. Peoples.
Anderson	Anderson	764	1	63.6	+3.2	86	2	56	29	39	2.24	...	0.70	...	5	23	3	5	ne.	R. B. Dean.
Angusta, Ga.	Richmond	131	31	65.4	+1.0	85	3	40	29	30	2.99	+0.17	1.22	...	6	19	5	7	nw.	Weather Bureau.
Barksdale	Laurens	780	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E. E. Putnam.
Batesburg	Lexington	656	11	62.5	0.6	89	4	39	29	32	7.31	+4.06	2.25	...	7	18	8	5	...	E. J. Hite.
Beaufort	Beaufort	28	16	69.7	+2.0	87	5	44	30	36	7.32	+3.68	3.38	...	5	20	5	6	ne.	S. M. Benton.
Bennettsville	Marlboro	...	1	65.6	...	86	*13	31	30	43	2.73	...	.92	...	5	21	6	4	s.	Jno. L. McCall.
Blackville	Barnwell	296	14	66.0	+1.8	87	*2	38	30	41	4.88	+1.66	1.13	...	8	15	11	5	ne.	G. D. C. Lange.
Bowman	Orangeburg	160	1	65.8	...	86	3	35	30	42	4.80	...	1.70	...	4	21	5	5	ne.	B. O. Evans.
Calhoun Falls	Abbeville	508	9	...	...	...	...	...	...	...	3.38	...	0.13	...	7	25	0	6	n.	P. J. Fisher.
Canden	Kershaw	222	36	...	...	...	...	...	...	...	4.31	+1.63	1.52	...	8	19	2	10	w.	W. F. Hudson.
Charleston	Charleston	48	33	69.1	+2.0	84	15	47	29	22	3.27	0.65	1.81	...	8	10	15	6	ne.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	62.3	+1.0	82	3	38	29	39	4.49	+1.08	1.19	...	7	17	5	9	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	144	14	63.6	+2.4	86	1	36	30	39	3.53	+0.78	1.03	...	9	...	...	...	...	W. R. Godfrey.
Cheraw (2)	...	144	9	...	...	...	...	...	...	...	3.52	+0.47	1.04	...	9	19	5	7	nw.	Jno. H. Powe.
Clemson College a	Oconee	850	11	60.8	-2.3	85	1	30	28	39	3.14	+0.04	.96	...	7	17	9	5	w.	Prof. C. C. Newman.
Columbia	Richland	351	15	65.1	+1.5	84	3	40	29	51	4.39	+2.00	1.44	...	7	14	9	8	ne.	Central Office.
Conway	Horry	25	11	66.2	...	87	10	35	30	38	5.94	+3.35	4.82	...	4	14	6	11	n.	P. Quattlebaum.
+Darlington	Darlington	175	7	65.2	...	90	1	34	29	40	2.96	0.04	1.04	...	7	21	5	5	...	E. R. McIver.
Due West a	Abbeville	740	1	64.2	...	82	3	36	29	29	3.25	...	1.55	...	5	22	3	6	w.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	9	...	...	...	...	...	...	...	3.59	+0.60	1.00	...	6	21	4	6	ne.	Miss Jerry Carter.
Edinham	Florence	106	10	...	...	...	...	...	...	...	5.97	+3.30	2.02	...	5	19	5	7	ne.	J. B. McCall.
Florence	Florence	136	14	65.2	+2.0	87	1	38	30	35	3.79	+0.88	1.13	...	8	19	2	10	...	H. K. Gilbert.
Gaffney	Cherokee	893	6	62.7	...	86	*2	35	30	39	5.28	+2.34	1.46	...	9	19	4	8	nw.	B. F. Camp.
Georgetown	Georgetown	12	9	66.0	+2.8	87	10	43	30	32	3.95	+0.66	1.50	...	5	26	1	4	ne.	W. T. Turbeville.
Gillisonville a	Hampton	50	7	66.3	0	84	*2	37	30	37	5.23	+1.43	2.89	...	4	19	3	8	e.	Sam P. Saltus.
Greenville	Greenville	989	10	59.0	-1.9	79	1	34	30	38	3.39	+0.62	1.11	...	7	19	2	10	...	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	62.4	+0.1	87	25	33	29	40	4.58	+1.80	2.47	...	7	21	0	10	n.	M. M. Calhoun.
Heath Springs	Lancaster	...	1	62.8	...	95	2	32	30	40	5.32	...	2.00	...	6	20	4	7	w.	J. A. Weaver.
Kingsree (1)	Williamsburg	54	14	64.3	-0.5	83	*1	38	30	30	3.02	+0.74	1.29	...	7	18	5	8	...	M. Cullen.
Kingsree (2)	...	54	8	...	...	...	...	...	...	...	3.48	+0.82	1.28	...	8	19	6	6	ne.	W. H. Matthews.
Liberty	Pickens	900	8	61.2	+1.2	86	19	33	29	39	3.31	+0.35	1.10	...	5	23	0	8	s.	Jno. T. Boggs.
Little Mountain	Newberry	711	9	64.6	-0.4	86	*2	38	29	35	5.93	+2.59	2.64	...	7	18	7	6	e.	John M. Sease, M. D.
+Longshore	Newberry	530	9	63.8	+1.5	85	*2	35	29	39	4.59	+1.16	1.46	...	7	17	6	8	ne.	W. G. Peterson.
Lugoff	Kershaw	168	1	65.1	...	86	*1	36	16	42	4.93	...	2.25	...	7	19	7	5	nw.	W. J. Burdell, M. D.
Pinopolis	Berkeley	54	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E. P. Ravenel.
St. Georges	Dorchester	109	14	66.0	+1.9	85	4	40	30	31	2.69	+0.28	.60	...	8	18	4	9	...	W. B. Rayson.
St. Matthews	Orangeburg	269	14	65.6	+1.1	85	4	40	30	29	5.07	+2.61	1.65	...	8	19	5	7	...	J. S. Wannamaker.
St. Stephens	Berkeley	73	10	...	...	...	...	...	...	...	3.95	+1.10	1.52	...	6	18	5	8	n.	C. T. Shuler.
Saluda b	Saluda	536	1	63.5	...	88	3	34	29	41	4.56	...	2.00	...	6	24	1	6	ne.	Alvin Etheridge.
Santee b	Union	512	9	62.4	+0.7	86	3	33	29	42	7.25	+3.59	4.45	...	7	17	5	7	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	68.8	+2.0	86	4	44	29	24	4.72	+1.04	2.84	...	10	11	15	5	ne.	Weather Bureau.
Seivern a	Aiken	482	1	64.1	-0.1	93	24	32	30	47	4.04	+0.10	1.14	...	6	19	4	3	w.	J. F. Lyles.
Smiths Mills	Williamsburg	62	7	...	...	...	...	...	...	...	3.50	+0.81	1.10	...	7	20	4	7	w.	H. van Keuren.
Society Hill	Darlington	192	11	64.0	+2.2	84	2	39	29	33	2.82	+0.74	1.05	...	6	18	6	7	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	11	61.1	+0.1	82	1	35	*15	40	4.36	+1.28	1.30	...	8	20	4	7	...	F. P. Robinson.
Stateburg	Sumter	500	22	65.9	+2.4	85	4	39	29	30	3.83	+0.67	1.37	...	7	17	4	10	e.	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	65.6	-0.4	84	*4	40	15	30	5.13	-0.84	2.10	...	8	20	6	5	ne.	Miss L. R. Gadsden.
Sumter	Sumter	169	1	65.6	...	90	1	38	*16	38	6.56	...	1.74	...	7	14	11	6	ne.	Prof. W. A. Buckner.
Temperance a	Marion	100	4	...	...	...	...	...	...	...	3.07	+0.79	...	...	...	...	...	...	...	J. R. Reeves.
+Trenton b	Edgefield	620	9	64.0	-2.0	84	3	36	29	36	4.75	+1.01	1.53	...	6	19	7	3	s.	C. A. Long.
Trials	Berkeley	85	16	64.3	+1.2	88	3	35	30	35	4.31	+1.07	2.85	...	5	17	6	8	ne.	Etsell Gaillard.
Walhalla	Oconee	1061	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E. F. Pagan, jr.
Wilmington, N. C.	New Hanover	52	33	66.0	+2.0	84	1	40	30	29	3.18	+0.72	1.32	...	6	14	13	4	ne.	Weather Bureau.
Winnsboro	Fairfield	545	13	64.4	+2.2	86	3	38	*29	29	7.34	+4.76	2.00	...	6	24	4	3	nw.	John W. Seigler.
Winthrop College	York	690	3	63.0	+0.9	83	*1	36	30	34	4.69	+1.51	1.85	...	7	20	8	3	se.	Geo. B. Green.
Yemassee	Beaufort	23	7	66.3	+0.4	85	*2	40	30	29	4.05	+1.33	2.05	...	7	17	1	13	...	R. G. Smith.
Yorkville a	York	660	14	64.6	+2.6	84	*1	39	29	35	5.36	+1.58	2.28	...	6	18	7	6	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				63.2	-0.8	95	2	30	28	47	4.40	+1.18	4.82	...	7	19	5	7	ne.	...

|| Maximum thermometer not standard.  
a indicates 1 day missing, b, 2 days, etc.

+ Minimum thermometer not standard.

§ Exposed not standard.

\* On other dates also.



a. Maximum from 2 p. m., Minimum from 7 a. m. observations.

[illegible]



# TOTAL PRECIPITATION FOR OCTOBER, 1892





## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

OCTOBER, 1902.

## DAILY PRECIPITATION FOR SOUTH CAROLINA, OCTOBER, 1902.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken				.04		1.04					1.75			.75	T.						1.04						1.55					4.42	
Allendale	.25				.23	.70					.77			.20													.30	1.55	.25			5.33	
Anderson				.14							.34			.20							T.	.01					.45	.08				2.24	
Augusta, Ga.				T.	.48									.38													.56	1.22				2.99	
Barksdale											.62	.30		.55														.59	2.25			7.34	
Batesburg	.78				2.25					3.38												T.				.07	2.47	1.35				7.71	
Beaufort					.05						.72			.32														.13				2.77	
Bennettsville	.64				.92						1.13			.43													.13	.95	.28			4.86	
Blackville	.28				1.09	.59					1.70																.95	1.03				3.38	
Bowman					1.12							.20	.26		.33													1.50	.40			4.31	
Calhoun Falls		.36				.33					1.52	.02		.46														.75	.52			3.27	
Camden	.16				.32	.56					1.61											.06				.08	.48	.83	.01			3.71	
Charleston	.10										1.03			T.	.49												.11	1.19	.05			4.44	
Charlotte, N. C.				.67	1.07						1.03	.21		.19														.24	.05	.13		3.51	
Cheraw(1)	.88				.35	.45					1.04	.20		.20														.24	.05	.10		3.71	
Cheraw(2)	.88				.34	.47					1.04	.20		.20													T.	.83	.20			3.71	
Clemson College			.10	.96							.44	.28		.33														.42	1.13	.03		4.36	
Columbia				.48	.67						T.		1.44		.22													.18	.20	T.		5.91	
Conway	.50										4.82			.28															.34			2.91	
Darlington				.32	.74						1.04	.05		.43		T.											.40	1.55				3.22	
Due West					.74						.43			.13																.74		3.51	
Edisto	.54				.19	.67					1.00			T.	.45														1.55			5.91	
Edinham	.40				2.02	.95					1.05																		.54	.15		3.72	
Florence	.22				.40	.90					1.13	.10		.35														.02	.99	1.46		5.21	
Gaffney	.16				.77	.09					.76	.48		.55														.02	.99	1.46		3.91	
Georgetown					.60						.70	.25		T.														.75	1.50			5.21	
Gillisonville					.75						1.63											.11						.28	.89			3.31	
Greenville	.28				1.11						.53	.20		.19														.87	.21			4.51	
Greenwood	.75				.70						.30	.18		.18														.22	.25	.22		5.31	
Heath Springs				.30	2.00						.68	1.00																	.02	.82	.23		3.01
Kingstree(1)	.12				T.	.32					1.29			T.	.22													.09	.90	.20		3.31	
Kingstree(2)	.14				T.	.65					1.27	.01		.22															.10			3.31	
Liberty				1.01							T.	.95		T.	.25														.64	2.64	.04		5.51
Little Mountain				.12	1.08						T.	.98		.43															.10				4.51
Longshore				1.46	.05						.66	.09		.27															1.33	.73	T.		4.41
Lugoff	.18				.73						2.25			.51															.22	.74	1.30		4.41
Pinopolis											.50			.10															.28	.60	.41		2.61
St. Georges	.20				.10	.50					1.65			.42															.15	1.05	.10		5.61
St. Matthews	.55				.15	1.00					1.21			.26															.15	1.53	.24		3.61
St. Stephens	.30				.41						1.21			.15															.15	2.00	T.		4.41
Saluda				.03	1.66						.57			.15															.08	4.45	.03		7.21
Saluda	.06			T.	1.26						1.18			T.	.19														.08	4.45	.03		4.41
Santuc	.22				.02						.66	.11										.40	.01		.03	.22	.58	.47	T.				4.41
Savannah, Ga.				1.14	.23						1.00			.47															.30	.90			4.41
Seivern	.80				.20						1.10			.45															.30	.90			3.21
Smiths Mills				.22	.66						1.05			.45																			4.41
Society Hill				.70							.55	.45		.43															T.	1.30	.38	T.	4.41
Spartanburg	.55										.55	.45		.43																			4.41
Stateburg					.07						1.35	.01		.02	.02						T.		T.				.14	1.42	2.10				5.61
Summerville					.74	.53		T.			1.10	T.		.54															.98	.95	T.		6.61
Sumter	.72										1.10	T.		.54																			3.31
Temperance											.47			.55																			4.41
Trenton				.40	1.07						.04			.25																			4.41
Trenton				T.	1.02																												4.41
Trial											T.	.24		.08																			3.31
Walhalla					.76	.55					T.	.24		.08																			7.31
Wilmington, N. C.	.23				2.00						1.53	1.40		.41															T.	1.85	.56		4.41
Winnsboro					T.	.90					1.12	.03		.15															.45	2.05	.54		4.41
Winthrop College	.08										.23			.04	T.														.07	2.28			5.61
Yemassee	.16				.07	1.37					1.22			T.	.35																		5.61
Yorkville																																	

T indicates trace, less than .01 inch.



REC. 06  
JUN 30

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR NOVEMBER, 1902.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

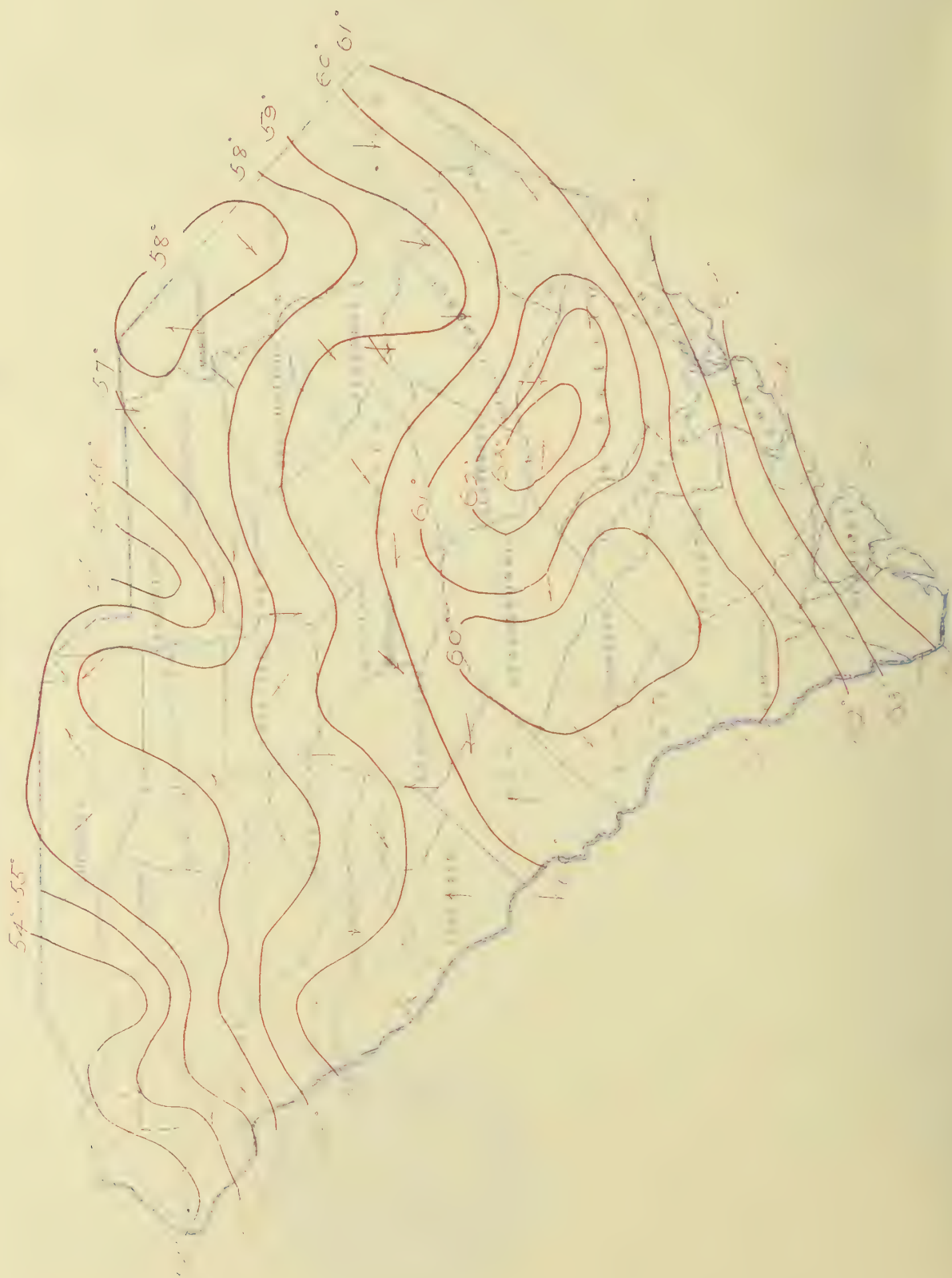


COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



MEAN TEMPERATURE AND PREVALENT WINDS FOR NOVEMBER 1907

(Source: U.S. Weather Bureau)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

Vol. V. COLUMBIA, S. C., NOVEMBER, 1902. No. 11.

## PROGRESS OF FARMWORK.

The month was characterized by abnormal warmth, and sustained even temperature until near its close, when, on the 27th and 28th, a moderate cold-wave swept over the State, causing the first killing frost of the season on the morning of the 28th, although at a number of points the temperature fell to freezing, or below, on the 27th. On the latter date, also, the first snow of the season fell, but was confined to the central, northern and western portions of the State, and at no point did the snowfall whiten the ground, but melted as it fell. This cold-wave put an end to growth of vegetation except along the immediate coast where it killed the most tender vegetation only. Up to the 27th, vegetation had continued to grow and develop, except such crops that have a defined period for growth, fruition and decay. Thus it was that cotton continued to bloom and fruit, and the earlier bolls to grow to maturity as far as size is concerned, but the heat was not great enough to cause many of even full grown bolls to open, while the October and November fruitage is absolutely of no commercial value. Late root crops, such as turnips and sweet potatoes grew rapidly throughout the greater portion of the month, where not gathered, and in many instances individual specimens attained prodigious size. However, nearly all field crops were gathered early in the month, while the weather was favorable, for no one could foresee the immunity from killing frost so far beyond its usual date of occurrence. The records of no other year show such a late date for the first killing frost.

The weather conditions were also favorable for preparing land for wheat and oats, and these grains were generally sown early in the month and came up to excellent stands, for the moisture conditions were as favorable as were the temperatures, for rapid germination. Some fields of oats sown in September grew so rank that they headed. This is said to be an unprecedented growth for November. In the truck raising districts, the conditions were equally favorable for fall and winter truck, both of which have excellent prospects.

Nearly all corn, peas, potatoes and other field crops were gathered and housed. Considerable late cotton was picked and the crop season came to an end at about its usual date,

although pasturage afforded green grazing to a much later date.

The effect of the sustained warm weather was, in a number of instances, remarkable and worthy of permanent record. Strawberries bloomed in favorable localities, and one patch near Columbia had about ten quarts nearly ready to pick, with some already fully ripe, when the frost came. Ripe strawberries were noted as far westward as Pickens county, while near Charleston the prospects were favorable for quite heavy shipments on a commercial scale, and in the latter locality they were scarcely injured by the frost. Apple blossoms were common, and some varieties bore apples the size of acorns. Another effect was the continued growth of turnips; specimens of the purple top variety were reported from various localities weighing from 11 to 22 pounds each. Sweet potatoes were grown weighing from 6 to 10 pounds each. Roses and jonquils bloomed in the open; even some jasmine blooms were noted. Stray kernels of corn that dropped on the fields while the crop was being gathered, came up, and specimens were noted on Thanksgiving day over a large field, from 6 to 12 inches in height.

BAROMETER TABLE.

Stations.	Mean.	Highest.	Lowest.
Augusta .....	30.10	30.41	29.59
Charleston .....	30.09	30.38	29.60
Charlotte .....	30.12	30.48	29.52
Columbia .....	30.11	30.44	29.59
Savannah .....	30.09	30.36	29.59
Wilmington .....	30.08	30.40	29.58

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean for November, 1902, was 59.2°, which is 5.0° above the normal. The highest local mean was 64.0° at Beaufort, the lowest was 53.7° at Greenville. The highest maximum was 89° at Seivern on the 15th, the lowest minimum was 22° at Greenville on the 28th, making the State range 67°. The greatest local monthly range was 62° at Seivern, the least was 43° at Society Hill. The mean of the daily maxima temperatures was 69.5°, of the daily minima 48.8°.

ICE.—Ice formed on the morning of the 28th over practically the whole State, and was generally the first ice of the season.

FROST, First Killing of the Season.—Clemson College, Darlington, Seivern, Summerville, Temperance 27th; Aiken, Allendale, Anderson, Batesburg, Beaufort, Bennettsville, Blackville, Bowman, Calhoun Falls, Camden, Charleston, Cheraw, Columbia, Conway, Due West, Effingham, Florence, Gaffney, Georgetown, Gillisonville, Greenville, Greenwood, Heath Springs, Kingstree, Liberty, Little Mountain, Longshore, Lugoff, Pinopolis, St. George, St. Matthews, St. Stephens, Saluda, Santuc, Smith's Mills, Society Hill, Spartanburg, Stateburg, Trenton, Winnsboro, Winthrop College, Yemassee, Yorkville, 28th.



## Precipitation, in Inches.

The precipitation averaged 3.80 inches, which is 0.95 above the normal. The greatest local amount was 7.01 at Summerville, the least 1.70 at Calhoun Falls. The greatest 24-hourly fall was 2.28 at Beaufort on the 30th. The average number of days with rain was 6, ranging from 3 at Allendale to 10 at St. Matthews and Summerville.

Excessive Precipitation.—None.

Snow.—Snow flurries were noted at 15 stations on the 27th, but at Longshore only was an appreciable amount recorded, where 0.2 inches fell. The other stations had only "trace". This was the first snow of the season.

Sleet.—Light sleet was reported from Bowman and Little Mountain on the 27th. The first sleet of the season.

Weather.—The average number of clear days was 13, partly cloudy 7, and cloudy 10.

Winds.—The prevailing direction of the wind was from the northeast at 16 stations, from the north at 8, from the east at 7, from the southeast and west at 5 each, from the northwest at 4, and from the south and southwest at 3 each.

High Winds.—Charleston 25, Columbia and Lugoff 26-27, Liberty 25-26.

## MISCELLANEOUS PHENOMENA (with dates).

Earthquake, slight.—Summerville, 20th.

Lunar Corona.—Santuc 17th; Sumter 16th.

Solar Halos.—Charleston, 2, 4, 9, 22, 24, 28; Santuc, 28; Stateburg, 24, 28.

Lunar Halos.—Charleston, 9; Liberty, 19; Little Mountain, Santuc, 17; Stateburg, 16, 17.

Thunderstorms.—Blackville, Columbia, 6; Bowman, Lugoff, Stateburg, 7; Charleston, 6, 30; Liberty, Longshore, 17; Saluda, 18.

Fogs, dense.—Allendale, 17; Beaufort, 16; Blackville, 17, 19, 22; Bowman, 12, 13, 21; Charleston, 16, 17, 18, 22; Columbia, 17, 22; Clemson College, 6; Gillisonville, 17, 21; Liberty, 18; Little Mountain, 7, 13, 14, 15, 17, 19, 22; Longshore, 19; Lugoff, 6, 17; Saluda, 10, 17, 19; Seivern, 12, 13, 14, 16, 17, 19, 21, 22; Society Hill, 16, 17; Statesburg, 14, 15; Summerville 1 to 17.

ERRATA.—October, 1902, report, on page 5, the date of the minimum temperature at Pinopolis 15th should be 16th; on page 6, the mean maximum temperature at Bowman 78.9 should be 78.8.

## REMARKS BY OBSERVERS.

Allendale.—First portion of the month was exceedingly warm with little precipitation; latter portion colder with heavy rain on the 30th.—R. D. Peebles.

Batesburg.—Corn and peas were about all housed; sweet potatoes gathered and banked. Fall grain looks fine and has not been affected by the flies this season.—E. J. Hite.

Beaufort.—Mean temperature 4.7° and precipitation 2.52

inches above normal. First frost of the season on the 28th, was one week later than the average for the last five years. The weather was good for harvesting. Considerable cotton still in the fields.—S. M. Benton.

Bennettsville.—The first killing frost of the season on the 28th came too late to damage growing crops to any great extent. Potatoes were all gathered; small grains were planted extensively, and look well.—John L. McCall.

Blackville.—Monthly temperature 4.3°, and precipitation 0.17 inch above normal.—G. D. C. Lange.

Bowman.—The month was remarkable for its even temperature. No killing frost until the 28th. Small grain looks remarkably well. Sugar cane grinding about finished.—B. O. Evans.

Darlington.—Light frosts on the 1st, 2nd and 23rd that injured the most tender vegetation only. Ice on the 27th.—E. R. McIver.

Gaffney.—It began snowing at noon of the 27th, and continued until 4 p. m., but the snow melted as it fell.—B. F. Camp.

Gillisonville.—Month dry and warm. Grasses continued green, and gardens continued their growth. Good harvesting season. Plenty of peas and potatoes. Sugar cane made good quality and quantity of syrup. Oats have excellent prospects.—Sam P. Saltus.

Greenville.—Light flurry of snow on the 27th.—Mrs. S. A. Crittenden.

Heath Springs.—Crops all harvested; yields very good. Small grain looks well. Farmers in better condition than for many years.—J. A. Weaner.

Liberty.—The first half of the month gave beautiful weather for sowing grain and gathering crops. First killing frost on the 28th. Wheat came up nicely, and more than the usual acreage has been sown, with the lands well prepared.—John T. Boggs.

Longshore.—Thunderstorm, high winds, rain and snow on the 27th. At 11:05 a. m. the temperature fell 8° in 5 minutes. Splendid weather during the month for farm work. Cotton about all gathered, and grains sown.—W. G. Peterson.

Lugoff.—The snow on the 27th was a light flurry, lasting about 5 minutes. Crops are all gathered. A few planters have sown some oats.—W. J. Burdell, M. D.

Santuc.—Until near its close, the month was favorable for farmwork, and vegetation continued to grow until the 28th, when a general killing frost occurred. A snow flurry occurred on the 27th. Nearly all crops are housed.—E. W. Jeter.

Society Hill.—Killing frost occurred on the 28th. Winter oats are very promising, having fine stands and growing nicely. Cotton all gathered and sold, as a rule.—Maj. J. J. Lucas.



CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER, 1902.																				
STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Aiken	Aiken	565	1	60.6		84	12	26	28	37	3.70		1.24		7	18	9	3	se.	C. F. McGahan, M. D.
Allendale	Barnwell	186	14	60.6	+5.1	79	*14	30	28	31	2.25	-0.17	1.60		3	18	2	10	w.	R. D. Peoples.
Anderson	Anderson	764	1	58.2	+8.1	81	16	27	28	34	3.33	+0.08	1.20		6	15	10	5	ne.	R. B. Dean.
Augusta, Ga.	Richmond	134	31	59.7	+6.3	79	16	31	28	34	2.75	-0.30	0.81		7	12	9	9	nw.	Weather Bureau.
Barksdale	Laurens	780	1																	E. E. Putnam.
Batesburg	Lexington	656	14	58.0	+3.9	77	13	26	28	31	4.08	+1.44	1.55	T.	5	15	7	8	s.	E. J. Hite.
Beaufort	Beaufort	28	16	64.0	+4.7	86	15	35	28	31	4.77	+2.52	2.28		9	16	9	5	ne.	S. M. Benton.
Bennettsville	Marlboro		1	59.4		82	*13	28	28	41	4.94	1.75			7	20	5	5	s.	Jno. L. McCall.
Blackville	Barnwell	296	14	60.2	+4.5	83	16	28	28	37	2.25	+0.17	0.98		5	13	14	3	ne.	G. D. C. Lange.
Bowman	Orangeburg	160	1	60.0		82	*14	27	28	37	3.21	-1.25	1.25	T.	7	13	9	8	e.	B. O. Evans.
Calhoun Falls	Abbeville	508	9								1.70	-1.62	0.84		5	19	1	10	nw.	P. J. Pfeiffer.
Camden	Kershaw	222	36								2.95	+0.61	1.56		6	12	4	14	n.	W. F. Hudson.
Charleston	Charleston	48	33	63.2	+5.6	79	15	33	28	24	4.05	+1.05	1.50		9	8	13	9	n.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	57.7	+7.8	78	16	30	28	27	4.44	+1.39	1.93		7	12	7	11	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	144	14	57.0	+4.2	79	17	28	28	36	3.48	+1.28	1.44		5					W. R. Godfrey.
Cheraw (2)		144	9								3.67	+0.65	1.34		5	10	6	14	n.	Jno. H. Powe.
Clemson College	Oconee	850	11	54.8	+3.6	80	16	24	27	39	4.43	+1.22	1.26		6	11	7	12	e.	Prof. C. C. Newman.
Columbia	Richland	351	15	59.6	+4.8	80	13	30	28	31	3.31	+0.97	1.06		9	12	6	12	ne.	Central Office.
Conway	Horry	25	11	59.6		82	13	31	28	38	3.94	+1.18	2.17		6	9	2	19	n.	P. Quattlebaum.
†Darlington	Darlington	175	7	58.8		81	*4	28	27	39	5.46	+2.59	1.50		8	10	11	9		E. R. McIver.
Due West	Abbeville	740	1	59.8		76	16	26	28	30	2.58		1.35		5	17	2	11	sw.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	9																	Miss Jerry Carter.
Edinburgh	Florence	106	10																	H. B. McCall.
Florence	Florence	136	14	59.2	+3.9	79	6	31	28	31	3.44	+0.78	0.98		4	10	7	13	ne.	H. K. Gilbert.
Gaffney	Cherokee	893	6	56.8		82	*16	27	28	38	1.88	-1.76	0.66	T.	6	10	5	17	nw.	B. F. Camp.
Georgetown	Georgetown	12	9	60.2	+3.5	80	5	31	28	32	5.40	+2.90	2.15		5	24	1	5	ne.	W. T. Turbeville.
Gillisonville	Hampton	50	7	60.8	+3.2	79	*5	29	28	34	3.53	+0.53	1.43		6	15	3	12	se.	Sam P. Saltus.
Greenville	Greenville	989	10	53.7	+3.2	78	17	22	28	34	2.39	-1.51	0.78	T.	5	11	5	14	nw.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	56.8	+4.4	80	12	26	*28	36	3.60	+0.56	1.78		4	13	1	16	n.	M. M. Calhoun.
Heath Springs	Lancaster		1	55.0		78	*12	25	28	38	3.55		2.00		5	15	12	3	w.	J. A. Weaver.
Kingstree (1)	Williamsburg	54	14	58.2	+2.7	78	*15	30	28	28	2.30	-0.53	1.10		8	13	5	12		W. H. Edwards.
Kingstree (2)		54	8								2.33	-0.52	1.12		7	10	5	15	n.	W. H. Matthews.
Liberty	Pickens	900	8	55.8	+5.5	78	*15	24	28	35	3.75	+0.82	1.45	T.	4	14	7	9	se.	Jno. T. Boggs.
Little Mountain	Newberry	711	9	58.8	+3.3	77	*12	28	28	35	2.91	+0.20	1.12		4	8	9	12	n.	John M. Sease, M. D.
Longshore	Newberry	530	9	58.0	+4.9	80	16	26	28	36	4.09	+0.77	1.47	2	6	9	10	11	ne.	W. G. Peterson.
Lugoff	Kershaw	168	1	58.8		81	16	27	28	44	4.33		1.49	T.	8	16	1	13	e.	W. J. Burdell, M. D.
§Pinopolis	Berkeley	54	9	62.1	+6.9	78	*4	35	28	44	5.09	+2.04	1.64		8	9	6	15	e.	E. P. Ravenel.
St. Georges	Dorchester	109	14	59.4	+3.6	79	17	31	28	31	2.80	+0.34	1.15		7	11	16	13		W. B. Rayson.
St. Matthews	Orangeburg	269	14	59.2	+3.4	78	5	30	28	28	3.52	+1.33	1.90		10	9	5	16		J. S. Warramaker.
St. Stephens	Berkeley	73	10								3.81	+1.34	1.40		7	10	5	15	n.	C. T. Shuler.
Saluda	Saluda	536	1	57.6		79	*11	26	28	39	3.38		1.08	T.	7	17	6	7	ne.	Alvin Etheridge.
Santee	Union	512	9	55.8	+4.3	78	15	25	28	40	4.47	+1.21	1.74	T.	6	12	12	6	sw.	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	63.9	+0.1	76	15	34	28	25	4.96	+2.68	2.88		8	11	13	6	w.	Weather Bureau.
Severn	Aiken	482	1	60.2	+5.2	89	15	24	*27	52	3.21	+0.07	1.02		6	11	8	11	e.	J. F. Lyles.
Smiths Mills	Williamsburg	62	7								4.70	+1.36	2.25		5	12	5	13	n.	H. van Keuren.
Society Hill	Darlington	192	11	57.8	+4.7	75	*5	32	27	28	5.27	+2.73	2.05	T.	5	15	5	10	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	11	55.8	+1.1	79	*12	27	28	36	3.33	+0.18	1.41	T.	5	13	4	13		F. P. Robinson.
Stateburg	Sumter	500	22	60.6	+6.4	80	13	29	28	31	4.47	+2.39	1.35		8	12	7	11	e.	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	60.6	+4.5	79	13	29	27	30	7.01	+3.54	1.67		10	18	6	6	ne.	Miss L. R. Gadsden.
Sumter	Sumter	169	1	57.8	+2.0	78	*6	29	28	34	3.52		1.61		8	13	5	12	ne.	Prof. W. A. Buckner.
Temperance	Marion	100	4	58.2		76	*5	32	*2	39	6.62	+3.94	2.05		6	16	6	8	ne.	J. R. Reaves.
†Trenton	Edgefield	620	9	59.6	+2.9	76	18	27	28	31	4.65	+1.76	1.78	T.	6	14	11	5	s.	C. A. Long.
†Tulsa	Berkeley	85	16	63.7	+7.8	83	*17	35	3	38	3.85	+1.28	1.02		6	17	6	7	w.	Etzell Gaillard.
Walhalla	Oconee	1061	12																	E. F. Pagan, Jr.
Wilmington, N. C.	New Hanover	52	33	60.0	+5.4	79	13	33	28	30	3.83	+1.38	1.11		8	9	11	10	ne.	Weather Bureau.
Windsboro	Fairfield	545	13	58.6	+5.1	78	13	27	28	28	3.26	+0.26	1.55		4	18	11	1	se.	John W. Seigler.
Winthrop College	York	690	3	57.8	+4.5	77	*11	27	28	33	3.76	+0.77	1.72	T.	6	14	13	3	se.	Geo. B. Green.
Yemassee	Beaufort	23	7	61.2	+4.1	83	17	31	28	28	2.08	-0.46	1.25		5	14	3	13		R. G. Smith.
†Yorkville	York	680	14	59.6	+6.5	81	11	29	28	32	5.99	+3.01	2.72	T.	4	12	6	12	sw.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				59.2	+5.0	89	15	22	28	52	3.80	+0.95	2.25	T.	6	13	7	10	ne.	

‡ Maximum thermometer not standard.

† Minimum thermometer not standard.

§ Exposed not standard.

\* On other dates also.



STATIONS.

[illegible]

Maximum from 2 p. m., Minimum from 7 a. m., observations.



TOTAL PRECIPITATION FOR NOVEMBER, 1900





## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

NOVEMBER, 1902.

## DAILY PRECIPITATION FOR SOUTH CAROLINA, NOVEMBER, 1902.

STATIONS.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Aiken				.15	.05		.18	.25										1.25								.95				.90	3.7	
Allendale						.32	.03	.48	.20									T.	.65		T.					1.20	.03			1.60	2.2	
Anderson				T.	.15	.10												.71	.22							.71	.05	T.		T.	.81	3.3
Augusta, Ga.																																2.7
Barksdale						.20		.30										1.55								1.53				.50	4.0	
Batesburg				.06	T.	.10	.44								T.			.02	.27			.03			T.	1.55			.02	2.28	4.0	
Beaufort						.09	1.00	.02										.79	.79		T.				.30	.99				1.75	4.9	
Bennettsville						T.	.02	.40										.65								.98				.20	2.2	
Blackville					T.	.10	.45												.23	.30	.05				.83	T.	T.		1.25	3.2		
Bowman						.33													.30							.11	.84			.12	1.7	
Calhoun Falls						.15	.30	.05										.74								1.56		T.		.15	2.9	
Camden						.17	.03	.36	.10									.43			.55	T.	T.			.03	.88	T.		1.50	4.0	
Charleston						.04	.57	T.										.01	1.93		T.	T.			T.	.55	.04	T.		1.30	4.4	
Charlotte, N. C.						T.	1.44	.12										.60								1.17		T.		.15	3.4	
Cheraw(1)						T.	1.44	.12										.54			T.			T.		T.	1.34		T.		.06	3.6
Cheraw(2)						T.	1.60	.13																	.95	.55				.82	4.4	
Clemson College				.06	.79												1.26															3.8
Columbia				T.	.09	.31	.02	.04									.15	.71	T.							1.00	.06			T.	.93	3.3
Conway							.35	.85										.30														3.8
Darlington						.52	.91	.28										.65			.06					1.50				.23	1.31	5.4
Due West						.06	.22											T.								.84		.11		1.35	2.7	
Edisto																																3.2
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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR DECEMBER, 1902.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



COLUMBIA, S. C.:  
WEATHER BUREAU OFFICE.



## TOTAL PRECIPITATION FOR DECEMBER, 1902





U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. V. COLUMBIA, S. C., DECEMBER, 1902. No. 12.

PROTECT THE BIRDS.

In the Annual report for 1901, attention was called to the great damage done by insects of various kinds, during that year. This year the damage has been even greater, especially to corn by cut worms and other worms. However, there is scarcely a crop grown on a commercial scale but what has its insect enemy, or enemies, that damage it to some extent and reduce its yield. It might in truth be said that no crop is exempt. Remedies are of avail to check the damage, if applied, but the great difficulty lies in having enough farmers apply remedies to give relief. Most of them take chances of saving as much of the crop as the insects are unable to destroy, and are satisfied with that. The damage increases from year to year, as the natural enemy of insects, birds of all kinds, decreases in number. The boy with the gun does the real mischief. The hope of the farmer of this State is that the Legislature will pass stringent laws to protect the birds, and that these laws, when placed on the statutes, will be strictly enforced. The wanton destruction of birds threatens seriously the agricultural interests of South Carolina.

PROGRESS OF FARMWORK.

With a mean temperature slightly above the normal, and no decided cold weather until near the close of the month, although with frequent frosts in the interior, and with well distributed rainfall, quite heavy in the extreme eastern and extreme western portions, farmwork incidental to December made favorable progress, except in the western counties where wheat seeding could not be finished owing to the unfitness of the soil by reason of being too wet. Generally, however, wheat seeding was finished, and came up to good stands. Oats did well, and look promising and were not materially hurt by the cold weather. The remnants of field crops were gathered and housed, and some progress was made in preparing seed beds for tobacco. In localities, late, full-grown but unopened cotton bolls began to open after the freezing weather set in. Cotton is not

all picked in Beaufort and some other counties.

The month was favorable for trucking interests, both on growing vegetables and for the preparation of lands for early Spring crops.

BAROMETER TABLE.

Stations.	Mean.	Highest.	Lowest.
Augusta .....	30.14	30.43	29.49
Charleston .....	30.14	30.49	29.51
Charlotte .....	30.14	30.55	29.47
Columbia .....	30.15	30.52	29.42
Savannah .....	30.13	30.44	29.56
Wilmington .....	30.12	30.52	29.53

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for December, 1902, was 46.8°, which is 0.6° above normal. The highest local mean was 53.6° at Beaufort, the lowest 40.6° at Greenville. The highest maximum was 85° at Seivern on the 19th, the lowest minimum was 10° at Trial on the 28th, making the State range 75°. The greatest local range was 74° at Seivern, the least 49° at Due West and Yorkville. The mean of the daily maxima was 56.6°, of the daily minima was 37.1°.

Precipitation, in Inches.

The precipitation averaged 4.26 inches, which is 1.16 above the normal. The greatest local amount was 6.80 at Conway; the least 1.92 at Bennettsville. The greatest 24-hourly fall was 3.08 at Gillisonville on the 3-4th. The average number of days with rain was 7, ranging from 4 at Allendale, Bowman and Trial to 11 at Santuc and Winthrop College.

Excessive Precipitation.—Allendale, 2nd, 1.05 in 1 hour; Allendale, 4th, 1.70 in 1 hr. 15 mins.; Barksdale, 15-16th, 3.00 in 24 hours; Beaufort, 3-4th, 3.04 in 24 hours; Gillisonville, 3-4th, 3.08 in 12 hrs. 15 mins.; Charleston, 3-4th, 2.97 in 24 hours.

Sleet.—Trace of sleet was noted at Columbia on the 16th; Greenville, 4th, 29th; Liberty, 15th, 29th.

Snow.—Trace of snow was observed at various stations and dates, as follows: Batesburg, Little Mountain, 27th; Clarks Hill, Longshore, Saluda, Seivern, Trenton, 26th; Columbia, Gaffney, 16th; Liberty, 29th.

Weather.—The average number of clear days was 14, partly cloudy 6, and cloudy 11.

Winds.—The prevailing direction of the wind was from the northwest at 12 stations, from the north at 9, from the east at 5, from the northeast at 8, from the west at 7, from the southwest at 4 and from the south at 2.

High Winds.—Beaufort, Charleston, Gillisonville, Heath Springs, 4; Bowman, 4, 12; Columbia, 4, 5, 16, 21; Liberty, 4, 21, 25; Summerville, 4, 16.



## REMARKS BY OBSERVERS.

Batesburg.—The weather was very changeable with considerable rain. Wheat and oats look well.—E. J. Hite.

Beaufort.—Mean temperature  $1.3^{\circ}$ , and precipitation 2.80 inches above normal. The season has been unusually late. First ice formed on Christmas day. Cotton picking is not yet finished. Turnips are not doing well. Oats are generally up and are in fair condition. Truck farmers preparing lands for every crop.—S. M. Benton.

Bennettsville.—Nearly all field crops are gathered. Oats are doing well. Nearly average crops were made during the past year.—Jno. L. MacCall.

Blackville.—Monthly mean temperature  $0.3^{\circ}$ , and precipitation 1.21 inches above normal.—G. D. C. Lange.

Bowman.—Real winter weather began on the 26th, with a steady wind from the northwest. Small grains do not seem to be damaged and look well.—B. O. Evans.

Gillisonville.—Month moderately warm, and damp. There were few cold days. Heavy rainfall early on the 4th. There is more water on flat lands and in bays, than has been noted in several years. Oats escaped serious damage.—Sam P. Saltus.

Liberty.—Continued wet weather caused wheat sowing to cease before all the contemplated lands were planted. The ground was not dry enough to permit plowing any day this month, so seeding was not finished.—Jno. T. Boggs.

Longshore.—With the exception of sowing wheat, the month was one of comparative rest for the farmers.—W. G. Peterson.

Santuc.—The weather was mild for December, until the 26th, when for several days there were hard ground freezes. White frosts were of frequent occurrence, but the general mildness allowed the remnants of field crops to be gathered under favorable conditions.—E. W. Jeter.

Society Hill.—Oats tillering finely and are unhurt by cold weather thus far. Preparations being made for seeding tobacco beds.—Maj. J. J. Lucas.

Stateburg.—Since the freezing temperatures during the last week of the month, the top crop of cotton has begun to pop open briskly and bids fair to add an appreciable amount to the total yield.—W. W. Anderson, M. D.

Trenton.—Precipitation 0.78 inch more than normal for December, and 0.67 inch more than the average for the twelve months.—C. A. Long.

## MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston, 11, 21, 24, 25, 30; Stateburg, 24.  
Lunar Coronæ.—Blackville, 14; Santuc, 13; Stateburg, 14.

Lunar Halos.—Blackville, 19; Clarks Hill, 13; Columbia, Stateburg, 10, 11; Greenville, 10; Little Mountain, 11, 21; Santuc, 7, 10, 20.

Thunderstorms.—Beaufort, Charleston, 2, 4; Gillisonville, 2, 3, 4; Summerville, 1.

Dense Fogs.—Barksdale, 13, 15, 16; Blackville, Santuc, 13; Clarks Hill, 2; Charleston, 7; Liberty, 2, 13, 22, 30; Seivern, 12; Stateburg, 5, 12; Summerville, 18, 20.

## NOTES.

The observer at Walhalla has been sick for several months, but is now convalescent and hopes to resume observations on January 1st.

There was a change of voluntary observers at Barksdale, owing to Mr. E. E. Putnam having removed from that place. The Bureau was fortunate to secure the services of Mr. E. V. Garrett as observer, who began observations in December.

The list of stations has been increased during the month by the accession of Clark's Hill, Edgefield county, with Mr. Wm. S. Middleton as observer.

Owing to the frequent absence from that city, Prof. W. A. Buckner, the voluntary observer at Sumter, has resigned. The Bureau has been unable, as yet, to secure a suitable observer to succeed Prof. Buckner.

The station at Pinopolis is being supplied with a complete new outfit of standard thermometers, instrument shelter and rain gauge.

Thirty-two stations have complete monthly records for the year 1902, which is a very gratifying showing. On the data from these thirty-two stations will be based the annual mean values for the State for all data, although the data for the other stations will be published for the months on which received. However, as the Annual Report has a wider circulation and is more generally consulted, it becomes very desirable to have as many stations as possible represented in the mean values, and the time to begin a complete year record for 1903, is with January.

Late December Report.—Georgetown, mean temperature  $49.6^{\circ}$ , departure plus  $0.9^{\circ}$ ; maximum temperature  $71^{\circ}$  on the 5th; minimum  $40^{\circ}$  on the 27-28th. Total precipitation 5.1 inches, departure plus 2.28. Number of rainy days, five.



CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER, 1902.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—degrees Fahrenheit.						Precipitation—inches.				Sky.				Observations.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall—melted.	Number rainy days.	Number clear days.	Number overcast days.		Number of days of fog.	
Aiken	Aiken	565	1	48.4		72	13	14	27	32	5.10		1.85		7	25	1	5	nw.	C. F. McGahan, M. D.
Albendale	Barnwell	186	14	48.8	+2.7	72	*17	19	27	34	3.75	+1.53	1.70		4	14	1	13	n.	R. D. Peoples.
Anderson	Anderson	704	1	44.8	+0.8	70	12	14	27	34	4.12	+1.32	1.30		7	16	6	6	no.	R. B. Dean.
Augusta, Ga.	Richmond	134	31	47.9	+0.2	71	13	19	27	31	3.43	+1.02	1.16		5	15	6	10	nw.	Weather Bureau.
Barksdale	Laurens	780	1	48.6		68	13	14	26	26	4.50		3.00		7	17	6	6	sw.	E. E. Putnam.
Batesburg	Lexington	656	14	40.1	-0.3	60	*12	11	27	40	5.34	+2.89	1.10	T.	7	17	7	7	w.	E. J. Hite.
Beaufort	Beaufort	28	16	53.6	+1.3	75	13	21	*27	31	4.49	+2.08	3.04		5	18	6	7	n.	S. M. Benton.
Bennettsville	Marlboro		1	47.5		72	21	17	27	37	1.92		.42		9	15	9	7	nw.	Jno. L. McCall.
Blackville	Barnwell	296	14	47.5	+0.6	73	13	17	27	45	4.82	+1.21	1.15		8	14	10	7	nw.	G. D. C. Lange.
Bowman	Orangeburg	160	1	51.5		75	21	17	28	40	3.33		1.90		4	17	5	9	sw.	B. O. Evans.
Calhoun Falls	Abbeville	508	9								5.82	+2.18	1.50		10	20	0	11	n.	P. J. Pfeiffer.
Camden	Kershaw	222	36								4.28	+1.13	1.34		8	11	6	14	e.	W. F. Hudson.
Charleston	Charleston	48	33	52.4	+0.9	73	13	23	27	26	4.23	+1.00	2.97		7	9	15	7	n.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	24	42.4	-1.2	64	11	16	27	25	3.42	-1.68	1.10		10	12	7	12	no.	Weather Bureau.
Cheraw (1)	Chesterfield	144	14	44.6	+0.1	73	22	17	*27	36	4.57	+1.07	2.00		10	12	3	16	n.	W. R. Gouffey.
Cheraw (2)		144	9								4.59	+1.47	2.10		10	12	6	10	nw.	Jno. H. Powe.
Clarks Hill				47.4		70	13	15	27	31	2.87		.80	T.	8	16	5	10		
Clonson College a	Oconee	850	11	41.4	-1.1	70	13	11	26	34	5.22	+1.68	1.50		10	14	4	12	e.	Prof. C. C. Newman.
Columbia	Richland	351	15	46.9	1.0	71	16	18	27	32	3.60	+1.66	1.52	T.	8	9	9	13	no.	Central Office.
Conway	Horry	25	11	47.8		72	*2	18	*26	39	6.80	+4.24	2.80		7	12	2	17	nw.	P. Quattlebaum.
+Darlington	Darlington	175	7	46.3		73	*16	16	26	38	2.58	-1.29	.66		9	17	6	8	n.	E. R. McIver.
Due West	Abbeville	710	1	46.4		66	13	17	27	30	5.13		1.90		8	19	2	10	w.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	9																n.	Miss Jerry Carter.
Edlingham	Florence	106	10								4.59	+1.38	1.25		7	15	5	11	no.	H. B. McCall.
Florence	Florence	136	14	46.8	+3.2	72	*17	19	27	35	4.59	+2.13	1.75		7	13	4	14	n.	H. K. Gilbert.
Gaffney	Cherokee	893	6	42.3		67	*4	16	27	33	5.60	+2.04	1.35	T.	9	12	7	12	e.	B. F. Camp.
Georgetown	Georgetown	12	9																n.	W. T. Turbeville.
Gillisonville	Hampton	50	7	50.4	+2.1	75	*15	11	28	42	5.35	+1.23	3.08		5	18	4	9	n.	Sam P. Saltus.
Greenville	Greenville	980	10	40.6	-0.9	68	14	14	27	34	6.38	+3.18	1.63		9	12	2	17	no.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	14	43.0	+0.3	68	14	17	*27	27	6.06	+2.82	1.70		9	16	0	15	e.	M. M. Calhoun.
Heath Springs	Lancaster	1	1	42.0		65	4	14	28	30	2.65		1.02		5	17	9	5	w.	J. A. Weaver.
Kingstree (1)	Williamsburg	54	14	49.0	+1.9	70	*3	20	27	32	5.76	+2.71	1.70		8	13	8	10	n.	W. H. Edwards.
Kingstree (2)		54	8								5.71	+2.40	1.70		8	12	6	13	no.	W. H. Matthews.
Liberty	Pickens	900	8	42.7	+0.1	69	13	12	27	34	5.86	+2.45	1.69	T.	7	17	5	9	sw.	Jno. T. Boggs.
Little Mountain	Newberry	711	9	46.2	-0.7	69	14	15	28	32	3.29	+1.31	1.13	T.	7	9	12	10	w.	John M. Sease, M. D.
+Longshore	Newberry	530	9	45.2	-1.0	69	13	15	27	34	3.60	+1.36	1.12	T.	9	14	3	14	w.	W. G. Peterson.
Lugoff	Kershaw	168	1																n.	W. J. Burdell, M. D.
\$Pinopolis	Berkeley	54	9	52.0	+4.2	70	*2	20	*27	22	4.77	+1.53	2.21		5	16	4	11	nw.	E. P. Ravenel.
St. Georges	Dorchester	109	14	48.9	+1.5	73	16	20	*27	35	6.34	+2.88	1.55		7	13	7	11	n.	W. B. Raysor.
St. Matthews	Orangeburg	269	14	47.9	+0.8	72	*16	20	27	34	4.35	+1.42	.97		8	15	3	13	n.	J. S. Wannamaker.
St. Stephens	Berkeley	73	10								5.10	+2.09	1.50		7	10	6	15	n.	C. T. Shuler.
Saluda c	Saluda	536	1	45.0		68	*6	16	27	34	2.86		.85		8	10	12	6	nw.	Alvin Etheridge.
Santee	Union	512	9	44.0	+0.5	70	13	14	27	34	3.54	+1.35	1.30		11	13	9	9	w.	E. W. Jeter.
Savannah, Ga.	Chatham	71	33	53.7	+1.3	76	13	24	27	33	3.23	+1.02	2.34		6	15	7	9	n.	Weather Bureau.
Severn	Aiken	482	1	48.6	+1.3	85	19	11	26	57	4.48	+1.29	1.60	T.	6	13	4	14	s.	J. F. Lyles.
Smiths Mills	Williamsburg	62	7								5.25	+1.06	1.75		7	13	6	12	nw.	H. van Keuren.
Society Hill	Darlington	192	11	45.4	-0.3	71	21	18	26	32	2.21	-1.57	.70		6	12	3	16	ne.	F. J. Lucas.
Spartanburg	Spartanburg	875	11	42.0	-1.6	69	14	15	*27	35	4.68	+2.10	1.25		9	10	5	16	n.	F. P. Robinson.
Stateburg	Sumter	500	22	48.8	+1.2	73	*16	17	27	32	2.97	-1.01	.91		6	10	7	14	e.	W. W. Anderson, M. D.
Summerville	Dorchester	75	5	49.9	+1.1	75	16	18	26	37	4.22	+1.20	1.35		6	18	7	6	sw.	Miss L. R. Gadsden.
Sumter	Sumter	169	1																n.	Prof. W. A. Buckner.
Temperance d	Marion	100	4	45.8	-0.2	71	*2	21	26	30	2.57	+1.52	1.01		5	14	1	12	nw.	J. R. Reaves.
+Trenton c	Edgefield	620	9	46.6	-1.6	72	13	16	27	27	4.01	+1.68	1.11	T.	5	12	9	7	s.	C. A. Long.
Trials	Berkeley	85	16	51.3	+2.7	75	13	10	28	43	3.55	+1.52	1.90		4	18	3	10	w.	Etsell Gaillard.
Walhalla	Oconee	1061	12																n.	E. F. Pagan, jr.
Wilmington, N. C.	New Hanover	52	33	49.0	+0.7	73	3	19	27	33	3.26	+1.28	1.70		9	11	11	9	ne.	Weather Bureau.
Winnboro	Fairfield	545	13	43.4	-3.3	74	14	15	27	34	2.74	-1.06	1.50		2	14	10	7	nw.	John W. Seigler.
Winthrop College	York	690	3	43.3	-3.1	66	21	15	27	30	3.67	+1.83	.81		11	14	10	7	ne.	Geo. B. Green.
Yemassee	Beaufort	23	7	49.2	+1.1	72	*14	20	27	35	5.62	+2.02	1.30		8	14	5	12	n.	R. G. Smith.
Yorkville	York	680	14	44.8	-1.3	67	11	18	27	29	4.44	+1.46	1.17		10	12	9	10	w.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				46.8	+0.6	85	19	10	28	57	4.26	+1.16	3.08	T.	7	14	6	11	nw.	

|| Maximum thermometer not standard.

+ Minimum thermometer not standard.

\$ Exposed not standard.

\* On other dates also.



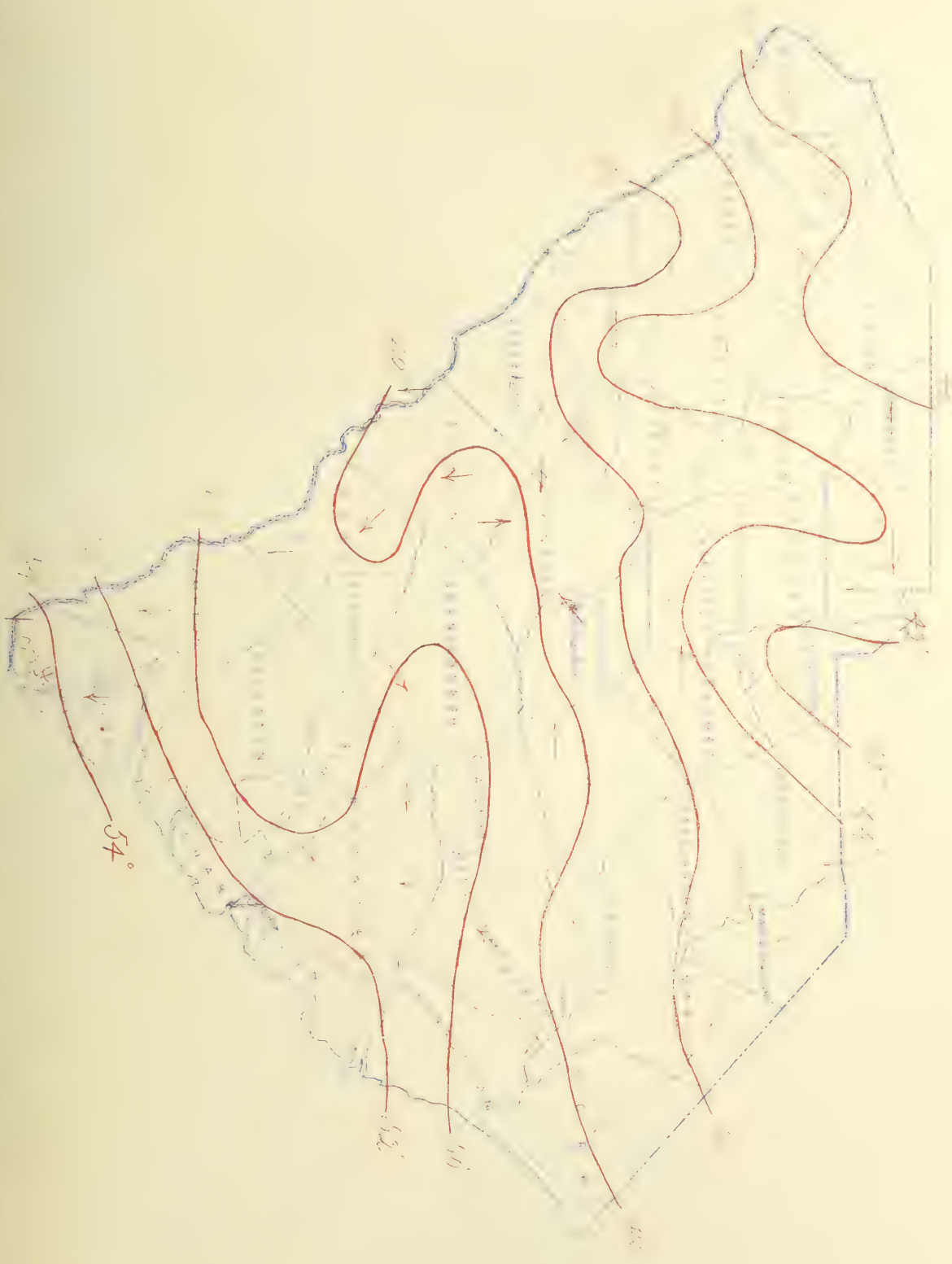
STATION.

[illegible]

1. Maximum from 2 p. m., Minimum from 7 a. m. observations.



MEAN MONTHLY TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1900





## DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1902.

STATIONS.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Aiken		1.05	.05	1.35								1.85	.05			1.15					.60											5.1
Allendale	T.	1.05		1.70								.70				T.					.30											3.7
Anderson		1.36	.26											.25		.65					.72											4.3
Augusta, Ga.		.96		1.16								.71				.18					.42								.56	T.		3.4
Barksdale												1.00				3.00																4.1
Batesburg	.75		1.05	.43	.75							1.10		.23		T.					1.03								.50			5.5
Beaufort		1.00	.10	3.04								.08									.27											4.4
Bennettsville		.12	.18	.42	.12							.30	.32	T.		.04	.09				T.	.33										1.9
Blackville	.63	.03	1.18	1.12	.34							1.16					.05					.31										4.8
Bowman		.48	T.	1.90								.90	.05																			3.5
Calhoun Falls	1.50	.08	1.42		.42							.12	.50				.11	.52			.67									.48		5.8
Camden	1.34	T.	.42	.34	.36							.03	1.24			T.	T.	T.			.47											4.2
Charleston		.21	.35	2.96								.02	.01			T.	T.				.50	.18							T.			4.2
Charlotte, N. C.	T.	1.10	.01	.05								.60	.09		.05	.24					.75		T.						.16	.10		3.4
Cheraw(1)	2.00		.47	.17	.23							.06	1.05			.08	.14					.36										4.5
Cheraw(2)	2.10	T.	.46	.10	.28							.06	1.04	T.		.08	.16					.30								.01		4.5
Clark's Hill		.80	.12	.37	.04							.61	.01			.26					.66					T.					T.	4.5
Clemson College	.03	1.50	.05	.39							T.	.33				.98	.13				.71										1.10	5.2
Columbia		.55	T.	1.03	.09							1.52	T.		T.	.03					.33	.03	.02						T.			5.6
Conway	2.80		.25	1.00	1.15								.80								.30	.50	T.									6.8
Darlington		.59	.60	.37								.02	.66		.01	.02	.02				.29								T.			2.5
Due West		1.90	.16	.05	.93										.05	.32					1.20								.52			5.1
Edisto																																
Effingham	.40		1.25	.78	.90								.78									.32	.16									4.5
Florence	1.75	.43			1.00							1.10					.01			.05	.25											4.5
Gaffney	1.10		1.35		.45							.05	.45			.72	.15					.78								.55		5.6
Georgetown		.85	.02	3.08								1.20																				5.3
Gillisonville	.90	.22	1.63	.11	.66							T.	.38		T.	.85	T.			T.	1.05								.58			6.3
Greenville	1.18		1.70	.05	.40								.75			.08	.20				1.31									.40		6.0
Heath Springs		1.75		.40								1.02				.02					.46											2.6
Kingstree(1)	1.70	.01	.49	1.30	1.38								.36				T.				.27	.25										5.7
Kingstree(2)	1.70	.01	.49	1.28	1.36								.35								.27	.25										5.7
Liberty	.05	.69		.35								.60			1.55						.80									.82		5.8
Little Mountain	1.13				.40	.04						1.00					.25					.46	.01			T.				T.		3.2
Longshore	T.	1.12	.05	.29								.06	.81			.15					.86									.16		3.6
Lugoff																																
Pinopolis		.72		2.21								.33									.25	.26										4.7
St. Georges	1.50		1.55	1.35	.42							1.15				T.					.02	.35										6.3
St. Matthews	.78		.93	.78	.37								.97				.01				.05	.46										4.3
St. Stephens	1.50		.47	1.17	.80								.97								.25	.24										5.4
Saluda	T.	.85	.45	.24								.45	.05			.30	T.				.35	.17								T.		2.8
Santuc		.80	.50	.05	.16							.59				.02	.24				.82	.19								.09	.08	3.5
Savannah, Ga.	.01	.16	.58	2.34								T.			T.	T.	.01				.13											3.2
Seivern	T.	.94	1.36									1.60				.10					.48					T.						4.8
Smiths Mills	.85	T.	.25	.55	1.75							1.20					.10				.40	.25										5.2
Society Hill		.62	.30	.31								.70				.07														.21		2.2
Spartanburg		.02	1.25	.03	.47							T.	.45			1.03	.21				.70				T.		T.			.52		4.6
Stateburg	.01	.88		.91								.86				.03					.28		T.									2.9
Summerville		.60	1.06	1.35								.80				T.					.07	.34										4.2
Sumter																																
Temperance		.29		1.01								.40				T.					.70	.17										2.5
Trenton		1.11		.89								.67					.40					.94										4.0
Trial		.70		1.90											.75								.20									3.5
Walhalla																																
Wilmington, N. C.		.20	.01	1.70								.23	.22			.01				.05	.11	.73								T.		3.2
Winnboro			1.24									1.50				T.					T.											2.7
Winthrop College		.81	.47	.05	.28							.57	.04			.29					.78	.25								.08	.05	3.6
Yemassee	1.23	.02	.75	1.30	.94							1.20				T.					.12	.06										5.6
Yorkville		1.03	.36	T.	.22							.65	.08		.06	.35					1.17									.25	.27	4.4

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1903.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



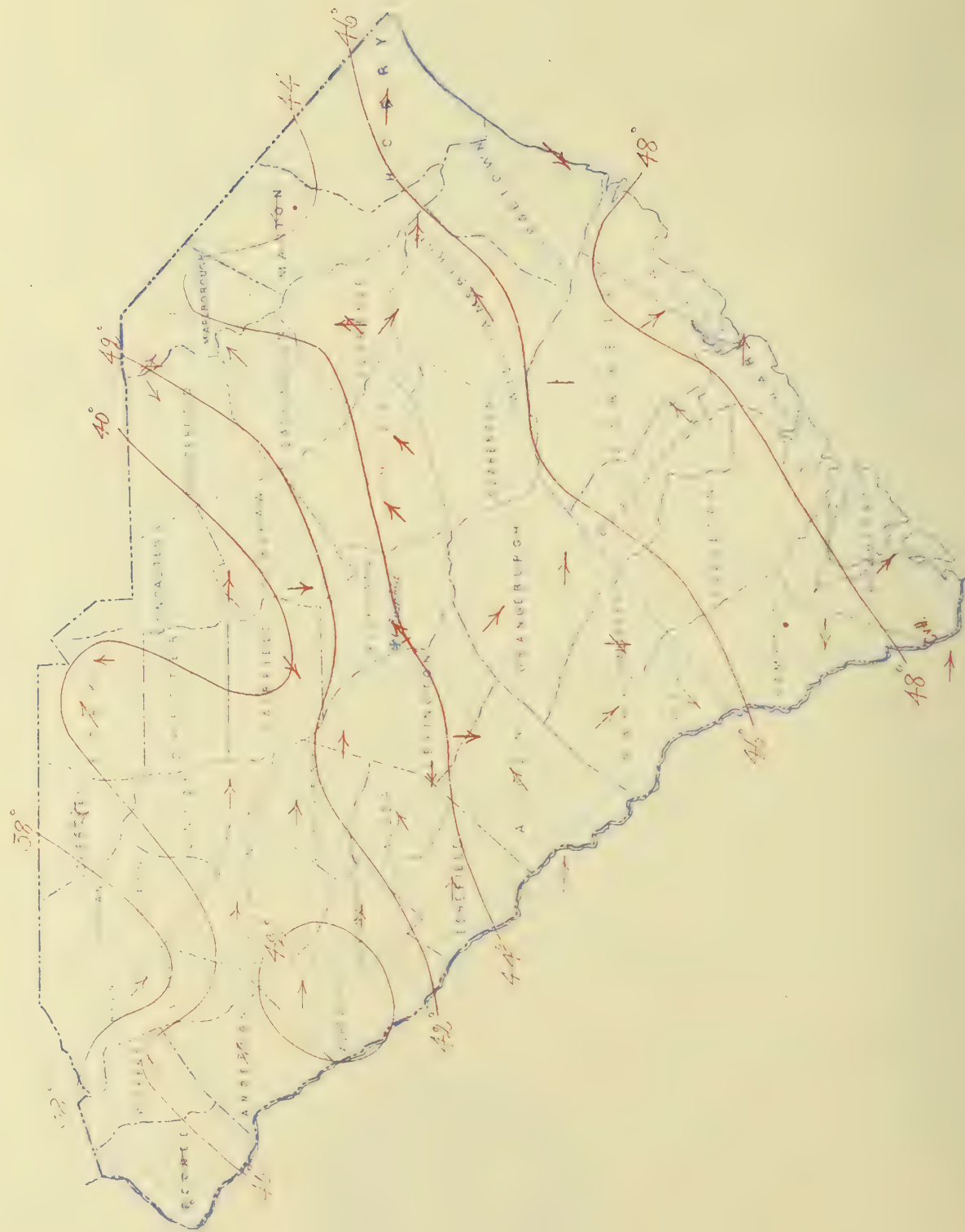
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

1903.



MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JANUARY, 1906

UNION PACIFIC RAILROAD





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VI. COLUMBIA, S. C., JANUARY, 1903. No. 1.

## PROGRESS OF FARMWORK.

Although the mean temperature averaged below normal, the month seemed to be a mild one as there were no severely cold days during January, and there was but little alternate thawing and freezing to injure fall sown grains. The low temperature was due, largely, to more than the usual amount of cloudiness that reduced the mean of the maximum temperatures below the usual January figures at most stations, while, on the contrary, the mean minimums were slightly higher.

There was only a slight excess in precipitation over the greater portion of the State, yet, owing to the cloudiness, the ground was continuously damp, and in most places too wet to be plowed, or to permit other field work. Along the coast, where the principal truck raising regions are located, the weather conditions were entirely favorable for winter truck, there having been sufficient moisture and an almost entire absence of injurious frosts or freezes. In the tobacco districts, seed beds were burnt over, and many beds seeded.

The condition of wheat, oats and other fall sown grains, continued very promising, except that some oats grew too rank exposing them to possible severe injury from subsequent freezing weather. Both wheat and oats stood well. As a rule, country roads were in bad condition, restricting the hauling of fertilizers, which, nevertheless, made considerable progress.

Barometer and Wind Table for January, 1903.

STATIONS.	BAROMETER.					WIND.				
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement.	Average hourly.	Maximum velocity.		
								Miles.	Direction.	Date.
Augusta, Ga.....	30.08	30.46	14	29.62	7	5.113	6.9	30	nw.	30
Charleston.....	30.07	30.46	13	29.55	7	7.749	10.4	35	nw.	30
Charlotte, N. C.....	30.06	30.46	14	29.50	7	5.734	7.7	33	nw.	8
Columbia.....	30.07	30.49	14	29.57	7	6.877	9.2	38	sw.	7
Savannah, Ga.....	30.07	30.46	13	29.56	7	5.906	8.0	34	w.	11
Wilmington, N. C.....	30.03	30.45	14	29.47	7	6.395	8.6	38	nw.	30
Averages.....	30.06	30.49	14	29.47	7	6.296	8.5	38	sw.	7

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for January, 1903, was 43.7°, which is 1.1° below normal. The highest local mean was 49.4° at Beaufort, the lowest, 37.5° at Greenville. The highest maximum was 77° at Yemassee on the 29th, the lowest minimum was 13° at Liberty on the 13th, making the State range 64°. The greatest local monthly range was 59° at Trial, the least 46° at Heath Springs. The mean of the daily maxima was 52.4°, of the daily minima 35.0°.

## Precipitation, in Inches.

The precipitation averaged 3.85 inches, which is 0.37 above the normal. The greatest local amount was 7.10 at Georgetown; the least 2.40 at Walhalla. The greatest 24-hourly fall was 2.05 at Bowman on the 27th. The average number of days with rain was 11, ranging from 4 at Due West to 17 at Beaufort and Summerville.

Excessive Precipitation.—None.

Hail.—Summerville, 7th.

Sleet.—Trace of sleet was recorded at Aiken, Cheraw, Greenwood, Heath Springs, Santuc, Yorkville on the 20th; Allendale, Blackville, 7th; Anderson (?), Barksdale 21-22nd; Clarks Hill, Trenton 14th; Clemson College 10th; Gaffney, 20-21st; Gillisonville, Seivern, Spartanburg, 19th; Liberty, 11th, 20th; Saluda; 14th, 20th; Stateburg, 14th, 19th.

Snow.—Snow flurries, the flakes melting as they fell, were recorded at Barksdale, Bowman, Longshore, Saluda on the 6th; Spartanburg on the 20th.

Ice.—During the early morning and forenoon of the 20th, over the western and central portions of the State, the rain froze as it fell, covering exposed objects to depths varying from a thin coating to nearly half an inch of ice.

Weather.—The average number of clear days was 10, partly cloudy 6, and cloudy 15.

Winds.—The prevailing direction of the wind was from the west at 17 stations, from the southwest at 13, from the northwest at 8, from the north at 5, from the east and northeast at 4 each, and from the south at 2.

High Winds.—Charleston, Yorkville, 30; Columbia, 7, 30; Clarks Hill 8; Gillisonville, 7, 8, 30; Heath Springs, 4, 30; Liberty, 7, 8, 9, 30; Bowman, 7; Longshore, 8, 9; Saluda, 8, 12; Seivern, 29; Summerville, 6, 7, 8, 9, 29.

## ERRATA.

In the Annual Report for 1901, the following corrections should be noted: On page 5, Camden, total precipitation 58.05 should be 58.65; Gaffney, 65.62 should be 66.62; Greenville, 77.50 should be 77.83; Liberty, 75.52 should be 76.52; Yemassee, 38.28 should be 28.38.

On page 6, Florence, mean temperature for September 73.8, should be 74.0.

On page 9, Due West, precipitation for December omitted, should be 6.94; Gaffney precipitation for November 0.41, should be 1.41; Greenville, precipitation for December 8.89, should be 9.22.



## MISCELLANEOUS PHENOMENA (with dates).

Lunar Corona.—Santuc, 14.

Solar Halos.—Charleston, 10, 15, 16, 29, 30, 31.

Lunar Halos.—Charleston, 10, 13, 15; Little Mountain, 14; Santuc, 13.

Earthquakes.—An earthquake shock was noted at nearly station on the evening of the 23d, at about 8:11 p. m. (The times varied from 8:08 to 8:16 p. m.), accompanied by a rumbling noise, and a jarring rather than an undulating movement or oscillation. No damage resulted. A second shock, very slight, was noted at Summerville on the 29th at 7:15 a. m.

Thunderstorms.—Barksdale, Cheraw, Clemson College, Darlington, Greenville, Heath Springs, Liberty, Longshore, Santuc, Society Hill, Rock Hill 28; Beaufort, 7, 11, 28; Blackville, Stateburg, Trial, 7; Bowman, 8; Charleston, Summerville, 2, 7; Gillisonville, 7, 28.

Dense Fogs.—Barksdale, 23, 24, 25, 28; Beaufort, 2, 20, 27, 28, 29; Blackville, 2, 25, 27, 28, 29; Charleston, 2, 3, 11, 20, 21, 24, 25, 26, 27, 28, 29; Columbia, 21, 27, 28; Clemson College, 24, 25, 26, 27, 28, 29; Gillisonville, 8; Heath Springs, 26, 27; Liberty, 25, 26, 29; Santuc, 21, 26; Seivern, 26; Society Hill, 28; Spartanburg, 21, 30; Stateburg, 2, 25, 27, 28; Yorkville, 21, 22, 26, 28, 29.

## REMARKS BY OBSERVERS.

Aiken.—Very little precipitation for the number of partly cloudy and cloudy days.—C. F. McGahan, M. D.

Allendale.—Month unusually cloudy. Temperature and precipitation above normal. Very warm and sultry at the close of the month.—R. D. Peeples.

Barksdale.—Wheat and oats are doing well. There was much fog from the 21st to 28th.—E. V. Garrett.

Batesburg.—Grain crops look much better than for several years. Little or no farm work done except hauling guano.—E. J. Hite.

Beaufort.—Mean temperature  $0.9^{\circ}$  below normal; precipitation 2.07 above. Work on truck farms is well advanced. Green peas mostly planted and some are up. Oats and turnips look well.—S. M. Benton.

Bennettsville.—Oats are doing well.—Jno. L. McCall.

Blackville.—Monthly mean temperature  $1.5^{\circ}$  below normal, and precipitation 0.43 below.—G. D. C. Lange.

Bowman.—A very perceptible earthquake shock was felt on the night of the 23rd at 8:10 p. m. Roads are bad from continued heavy hauling, and little sunshine.—B. O. Evans.

Cheraw.—Night of 19th there was some sleet followed by

freezing rain on the 20th. Thunderstorm night of 28th. High sw. winds 28th-29th.—W. R. Godfrey.

Gaffney.—Sleet and freezing rain on 20th-21st.—B. F. Camp.

Gillisonville.—Month disagreeable and wet with several flurries of snow. Little field work practicable. Winter oats in good condition. Earthquake about 7:35 (?) of 23rd. Wave movement from east to west, severe enough to cause light objects to rock.—Sam P. Saltus.

Heath Springs.—Small grains look well.—J. H. Weaner.

Liberty.—Farmwork almost at a standstill owing to wet and freezing weather. No plowing practicable. Wheat sowing could not be finished consequently acreage is below an average. Small grains look well.—Jno. T. Boggs.

Little Mountain.—The continued wet weather kept the land too wet for any field work during the whole month.—J. M. Sease, M. D.

Longshore.—On the 7th there was lightning towards the south. A thunderstorm at 4 p. m. of the 28th.—W. G. Peterson.

Saluda.—Earthquake at 8:15 p. m. of 23rd.—Alvin Etheridge.

Santuc.—On the 7th much lightning could be seen towards the southeast. High winds on the 8th. On the 28th a heavy thunderstorm occurred, coming from the west with much lightning and little rain. The month was a wet one.—E. W. Jeter.

Society Hill.—Rutabagas that were left in the ground are uninjured by frost. Oats are very promising. Temperature normal; precipitation 0.57 below.—Maj. J. J. Lucas.

Spartanburg.—19th, midnight, there was snow, sleet and rain. The snow was very light.—F. P. Robinson.

Stateburg.—The top crop of cotton, for the season just past, was a remarkable one in this section. Picking has been going on at pretty regular intervals during the past two months and appearances indicate that there remains more to pick. The year opens rather gloomy with only 5 clear days and 19 cloudy ones. An earthquake on the 23rd.—W. W. Anderson, M. D.

Summerville.—A little thunder was heard on the 2nd. Heavy earthquake (two distinct reports at very short interval) on night of 23rd, 8:11 p. m., lasting about 6 seconds. A tremor on the 29th, 7:15 a. m.—Miss L. R. Gadsden.

Trenton.—Precipitation 0.82 less than the January normal.—C. A. Long.



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1903.

STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.				Sky.				Observer.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, in inches.	Number rainy days.	Number clear days.	Number partly cloudy days.		Number overcast days.	Prevailing direction of wind.
Aiken	Aiken	565	2	45.9		72	2	18	13	36	3.10		.70		7	18	1	9	SW.	C. F. McGahan, M. D.
Allendale	Barnwell	186	15	45.2	+1.4	67	*3	23	13	36	5.99	+3.05	1.40		10	9	2	20	DE.	R. D. Peoples.
Anderson	Anderson	704	2	41.8	+0.4	66	20	16	12	37	4.20	-1.29	1.57		8	15	7	8	SW.	R. B. Dean.
Augusta, Ga.	Richmond	134	32	44.9	-1.7	71	20	22	11	30	3.41	-1.06	1.41		12	12	8	11	W.	Weather Bureau.
Barksdale d.	Laurens	780	2	40.8		65	*20	15	13	27	3.55		1.40		9	10	7	14	W.	E. V. Garrett.
Batesburg	Lexington	656	15	42.9	-3.3	60	20	17	13	36	4.78	+1.84	1.08		13	10	5	16	DE.	E. J. Hale.
Beaufort	Beaufort	23	17	40.4	-0.9	74	20	27	13	27	4.82	+2.07	1.16		17	8	8	15	NW.	S. M. Benton.
Bennettsville	Marlboro		2	44.2		70	20	19	13	33	2.66		.51		10	14	10	7	S.	Jno. L. McCall.
Blackville	Barnwell	296	15	44.4	-1.5	74	20	21	13	31	3.07	-43	.54		15	7	16	8	NW.	G. D. C. Lange.
Bowman	Orangeburg	160	2	45.8		73	20	20	13	33	5.03		2.05		12	11	6	14	W.	B. O. Evans.
Calhoun Falls	Abbeville	508	10								2.53	-1.56	.69		13	16	0	15	DE.	P. J. Pfeiffer.
Camden	Kershaw	222	37								2.84		.60		11	9	4	18	N.	G. E. Bateman.
Charleston	Charleston	48	34	48.5	-1.5	74	20	28	13	26	5.27	+1.26	1.43		14	2	17	12	W.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	25	39.8	-1.4	66	20	18	13	26	3.10	-2.04	1.26		11	10	7	14	SW.	Weather Bureau.
Cheraw (1)	Chesterfield	141	15	42.0	-0.6	71	30	18	*9	39	2.53	-78	.65		13	6	5	20	SW.	W. R. Godfrey.
Cheraw (2)		144	10								2.55	-31	.58		12	10	7	14	NW.	Jno. H. Powe.
Clarks Hill			1	44.0		71	20	18	13	31	3.15		.88		10	10	8	13		Wm. S. Middleton.
Clemson College	Oconee	850	12	39.2	-2.7	77	1	14	12	48	5.21	+58	1.10		12	12	4	15	DE.	Prof. C. C. Newman.
Columbia	Richland	351	16	44.0	-1.6	70	20	21	13	28	3.06	-72	1.32		11	7	9	15	SW.	Central Office.
Conway	Horry	25	12	46.4		75	29	21	13	36	4.44	+50	1.03		11	7		24	W.	P. Quattlebaum.
+Darlington	Darlington	175	8	43.6		73	29	18	*8	40	3.95	+1.63	.94		12	9	8	11		E. R. McIver.
Due West	Abbeville	740	2	43.4		66	28	18	13	33	3.22		1.35		4	16	2	12	W.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	10								3.86	+63	.55		16	11	1	19	DE.	J. L. Padgett.
Effingham	Florence	106	11								5.50	+2.08	.98		12	10	4	17	NW.	H. B. McCall.
Florence	Florence	136	15	44.4	-0.8	71	29	23	*9	29	4.24	+70	.90		12	9	2	20	SW.	H. K. Gilbert.
Gaffney	Cherokee	893	7	39.2		68	30	17	*13	32	4.96	+1.48	1.28		13	10	6	15	NW.	W. F. Camp.
Georgetown	Georgetown	12	10	46.0	-1.6	75	30	25	*9	38	7.10	+3.23	1.75		9	21	2	8	DE.	W. T. Turbeville.
Gilkinsonville a.	Hampton	50	8	47.4	-0.7	75	29	25	13	35	3.58	+1.47	.65		11	8	7	16	DE.	Sam P. Salus.
Greenville	Greenville	989	11	37.5	-3.3	64	30	14	13	31	4.94	+1.27	1.00		16	11	4	16	NW.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	15	39.8	-1.8	66	30	18	*13	30	3.94	+1.18	.62		11	13	1	17	W.	M. M. Calhoun.
Heath Springs	Lancaster		2	39.2		60	*11	15	*9	30	4.00		1.60		6	15	4	12	W.	J. A. Weaner.
Kingstree (1)	Williamsburg	54	15	45.0	-1.6	75	29	22	13	32	3.28	-02	.55		17	5	6	20	SW.	W. H. Edwards.
Kingstree (2)		54	9								3.02	-20	.55		15	8	4	19	SW.	W. H. Matthews.
Liberty	Pickens	900	9	40.7	-0.2	65	20	13	13	30	5.10	-15	1.66		7	13	4	14	SW.	Jno. T. Boggs.
+Little Mountain	Newberry	711	10	42.7	-2.6	69	29	17	13	29	3.29	-14	.76		10	6	12	13	W.	John M. Sease, M. D.
+Longshore	Newberry	530	10	41.8	-0.7	67	29	16	13	31	3.11	-1.17	.50		14	11	3	17	W.	W. G. Peterson.
Lugoff	Kershaw	168	2																	W. J. Burdell, M. D.
+Pinopolis	Berkeley	54	10	49.1	+1.0	75	21	26	13	32	4.39	+1.36	1.04		8	7	9	15	NW.	E. P. Ravenel.
St. Georges	Dorchester	109	15	46.0	-0.4	74	29	22	14	33	4.32	+1.17	1.25		16	7	7	18		W. B. Rayson.
St. Matthews	Orangeburg	269	15	45.3	-1.6	73	29	24	*13	33	4.61	+1.88	1.06		16	7	6	18		J. S. Wannamaker.
St. Stephens	Berkeley	73	11								3.91	+58	1.43		13	9	3	19	N.	C. T. Shuler.
Saluda a.	Saluda	536	2	43.1		70	29	17	13	31	2.58		.67		10	8	10	12	SW.	Alvin Etheridge.
Santee	Union	512	10	40.4	-2.1	68	29	15	*9	34	3.16	-15	1.08		10	9	10	12	W.	E. W. Jeter.
Savannah, Ga.	Chatham	71	34	49.9	-1.1	78	29	27	13	33	3.64	+37	.82		11	5	11	15	NW.	Weather Bureau.
Severn	Aiken	482	2	45.1	-0.3	71	29	21	*13	39	4.01	+31	.80		11	8	2	21	N.	J. F. Lyles.
Smiths Mills	Williamsburg	62	8								3.55	+78	.80		12	9	4	18	W.	H. van Keuren.
Society Hill	Darlington	192	12	43.2	+0.1	69	29	19	12	33	2.59	-57	.45		12	8	3	20	SW.	J. J. Lucas.
Spartanburg	Spartanburg	875	12	38.8	-3.3	65	29	16	13	30	5.04	+1.95	1.53		13	10	0	21		F. P. Robinson.
Stateburg	Sumter	500	23	45.1	-0.1	71	20	20	13	30	2.86	-71	.59		12	5	7	19	SW.	W. W. Anderson, M. D.
Summerville	Dorchester	75	6	46.6	-1.4	75	*2	23	12	40	4.90	+1.12	1.05		17	8	13	10	SW.	Miss L. R. Gadsden.
Sumter	Sumter	169	2																	F. Prescott Bullock.
Temperance	Marion	100	5	42.9	-1.9	70	29	21	*8	35	3.98	+35	.92		11	10	5	16	DE.	J. R. Reaves.
+Trenton, b.	Edgefield	620	10	44.0	-3.5	69	29	19	13	26	3.09	-82	.84		6	9	10	12	W.	C. A. Long.
+Trial	Berkeley	85	17	46.2	-1.0	75	29	16	13	40	5.92	+2.30	1.95		9	9	7	15	NW.	Etsell Gaillard.
Walhalla	Oconee	1061	13	39.6	-2.5	65	29	18	12	27	2.40	-1.74	1.05		5	13	7	11	W.	E. F. Pagan, jr.
Wilmington, N. C.	New Hanover	52	34	46.2	-0.7	70	30	22	9	28	3.43	.51	1.15		12	7	14	10	W.	Weather Bureau.
Windsboro	Fairfield	545	14	38.6	-4.6	65	29	18	13	22	3.49	+32	.82		9	12	12	7	DE.	John W. Seigler.
Winthrop College	York	690	4	40.8	-2.4	67	29	16	13	29	3.35	-16	1.30		10	9	19	3	S.	Geo. B. Green.
Yemassee	Beaufort	23	8	47.4	-0.9	77	29	26	*9	35	3.78	+1.48	.83		16	3	5	23	DE.	R. G. Smith.
Yorkville	York	680	15	41.8	-1.3	68	29	19	13	32	3.00	-86	1.18		6	8	9	14	SW.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				43.7	-1.1	77	29	13	13	48	3.85	+37	2.05	T.	11	10	6	15	W.	

|| Maximum thermometer not standard.  
a indicates 1 day missing, b, 2 days, etc.

+ Minimum thermometer not standard.

\$ Exposed not standard.

\* On other dates also.



STATIONS.

[illegible]



TOTAL PRECIPITATION FOR JANUARY, 1905.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JANUARY, 1903.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken		.70		.50							.60									.30				.30			.60	.10				3.10	
Allendale		.85				.32					1.40						.60	.22		.35	.52			1.08		.45	T.	.20				5.99	
Anderson		1.57	.28								.78									.23	.05			.50			.64	.15				4.20	
Augusta, Ga.		.27	.01	.62	T.	.05	.01				.42			T.			.07		T.	.22	T.			.28		T.	1.41	.04	.01			3.41	
Barksdale		1.40		.40							.90											.25			.25		.35					3.55	
Batesburg	.53	.49		.23	.10	.05					.25	1.08					.69	.01	T.	.45	.15			.15		.63	.52	.15				4.82	
Beaufort		.29	.08	.80		.18	.05				1.16	.09								.05	.29	.20		.23	.01	.62	.02	.05				4.82	
Bennettsville		.42		.42	T.	.11					.51									.45	.07			.06		.04	.12	.46				2.66	
Blackville		.11	.25	.54	.13	.05		T.			.42	.25					.32			.21	.17	.02			.16	.38	.05	.01				3.07	
Bowman		.70	.08	.60		.05			.10		.45						.20			.40	.05			.15		2.05	.20					5.03	
Calhoun Falls		.14	.69	.22	.11					.26	.18									.08	.12			.11	.14		.16	.21	.11			2.53	
Camden		.10	.25	.31	.12	.18	T.				.14	.60								.22	.35					.25	.32					2.84	
Charleston	T.	1.03		.66		.12	.20				1.43						.54	.02	T.	.14	.35	.11		.13	.01	T.	.51	.02				5.27	
Charlotte, N. C.	T.	1.26	.01	.36							.66									.48	T.			.01	.01		.20	.04	.03	.04		3.10	
Cheraw(1)		.07	.14	.27	.14	.08	.04				.07	.51								.14	.65					.01		.20	.21			2.53	
Cheraw(2)		.07	.17	.24	.16	.06	T.				.07	.52								.12	.58				.03		.19	.34				2.55	
Clark's Hill		.21	.03	.54			T.				.88			T.					T.	.23	T.			.40	.01		.73	.05				3.15	
Clemson College		1.10	.80	.14						1.02	.41									.03	.45		.16	.40		.05	.17	.48				5.21	
Columbia	T.	1.32	.01	.45	.02	.06					.68								T.	.19	.02			.11	T.		.15	.05	T.			3.06	
Conway		.06	1.03	.41	.10	.10	T.				.45	.92					.17			.17	.63					.09	.06	.16	.47			3.95	
Darlington	T.	.94	T.	.46	.20	.17				.20	.30									.42	.48				.09		.06	.16				3.22	
Due West		1.35	T.	.38							.95									T.				.54								3.86	
Edisto		.03	.35	.10	.12	.09			.06		.55	.25					.18			.36	.16	.40	.18				.45	.18	.40			5.50	
Edingham		.06	.98	.10	.90	.85	.60				.75						.11			.15	.25					.25	.50				4.24		
Florence			.60	.25	.29	.40	.14				.20	.90					.04			.60	.16					.30	.36					4.06	
Gaffney		.95	1.28	.20		.02					.45	.62								.05	.55					.16	.08	.30	.10	T.		1.95	
Georgetown			.50			.25	1.20	.15			.40								.50	1.20					T.	.75			1.15			7.10	
Gillisonville		.65		.35	.13	T.	.10				.63						.57	.02	T.		.27			.42		.43	T.	.01				3.58	
Greenville		.45	1.00	.20	.10	.08	.02				1.00	.36								.05	.41			T.	.49	.02	.12	.21	.41	.02		4.94	
Greenwood		.46	.58	.41	.11						.35	.40													.38		.12	.30	.62			3.94	
Heath Springs		1.20		1.60		.02					.55																.30	.33				4.00	
Kingstree(1)		.01	.50	.55	.08	.10		.10			.30	.38					.08	.02		.30	.10	.08			.09	.30	.23	.06				3.28	
Kingstree(2)		T.	.50	.55	.07	.10		.12			.30	.38					.08	.04		.30	.12	.08				.38	.22	.04				3.02	
Liberty		1.66		.02							1.00									.37				.55			.50	.40				5.10	
Little Mountain		.76	.02	.50	.03	.03					.48									.40				.20		.30	.57					3.29	
Longshore	.38	.22	.32	.17	.06	T.				.19	.50								.15	.31				.25	.02	.03	.21	.30	T.			3.11	
Lugoff											.90						.51				.50		.16				1.04					4.39	
Pinopolis		.71		.48	.06						.65	.40					.25			.25	.03	.15			.16		1.25	.25	.10			4.32	
St. Georges		.02	.42	.15	.15	.06		.03			.55	.34					.40	.15		.35	.12			.12		1.06	.35	.15				4.61	
St. Matthews		.03	.27	.26	.15			.06			.50	.19					.30	.01		.21	.15	.12				.94	.49					3.91	
St. Stephens		.04	.39	.30		.26					.67									.24	.08			.32	.05		.21	.23	T.			2.58	
Saluda		.21		.53		.04					.64									.50	T.			.13	.25	.11	.11					3.46	
Santuc		1.08	.08	.40		.16					.64						.52	T.	T.	.01	.23	.21		.04	T.	.26	T.					3.64	
Savannah, Ga.		.62	.01	.73	T.	.19				1.58													.15		.57		.08					4.01	
Severn		.80	1.43	.10					.20		.70	.20					.20	.10		.30					T.		.10		.15			3.55	
Smiths Mills			.80	.20	.40						.20									.31	.45				.09	.03	.04	.16	.30			2.59	
Society Hill		.03	.28	.32	.07					.40											.31	.45				.09	.30	.10		.17	.02	5.04	
Spartanburg		1.53	.98	.22	.15		T.				.68	.25			T.						.49	.04	.02		.02		.59	.15				2.86	
Stateburg		.28		.45	.10	.13	T.				.54									.05	.49	.04			.11	1.05	.33	.01				4.90	
Summerville		.07	.56	.50	.06	.05		.31		.56	.17					.50			.02	T.	.23	.14			.06		.44	.22	.02				
Sumter											.82									T.	T.						.44	.54				3.98	
Temperance		.92	.50	.09	.19	.05					.84									T.		.29	.47	.04			.68					3.09	
Trenton		.35				.67					.90									.35					.15							5.92	
Trial	.90		.60	.12		.15					.90														.10			.10	.15			2.40	
Walhalla						1.05					1.00																					3.43	
Wilmington, N. C.	T.	1.15	.03	.41	T.	.04	.04	T.			.62						.06		T.	.41	.35	.07		.14		T.	.11					3.43	
Winnsboro		.02		.42	.82	T.					.53									.25					.50	.53	.25	.45				3.45	
Winthrop College		1.30	.05	.46		T.					.56									.52					.02	.28	.07	.05	.04				3.35
Yemassee		.02	.66	.55	.04	.10		.11			.42	.22					.83	.04	.06	.06	.07				T.	.35	.03	T.				3.78	
Yorkville		1.18	.10	.45							.69																	.30					3.00

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1903.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

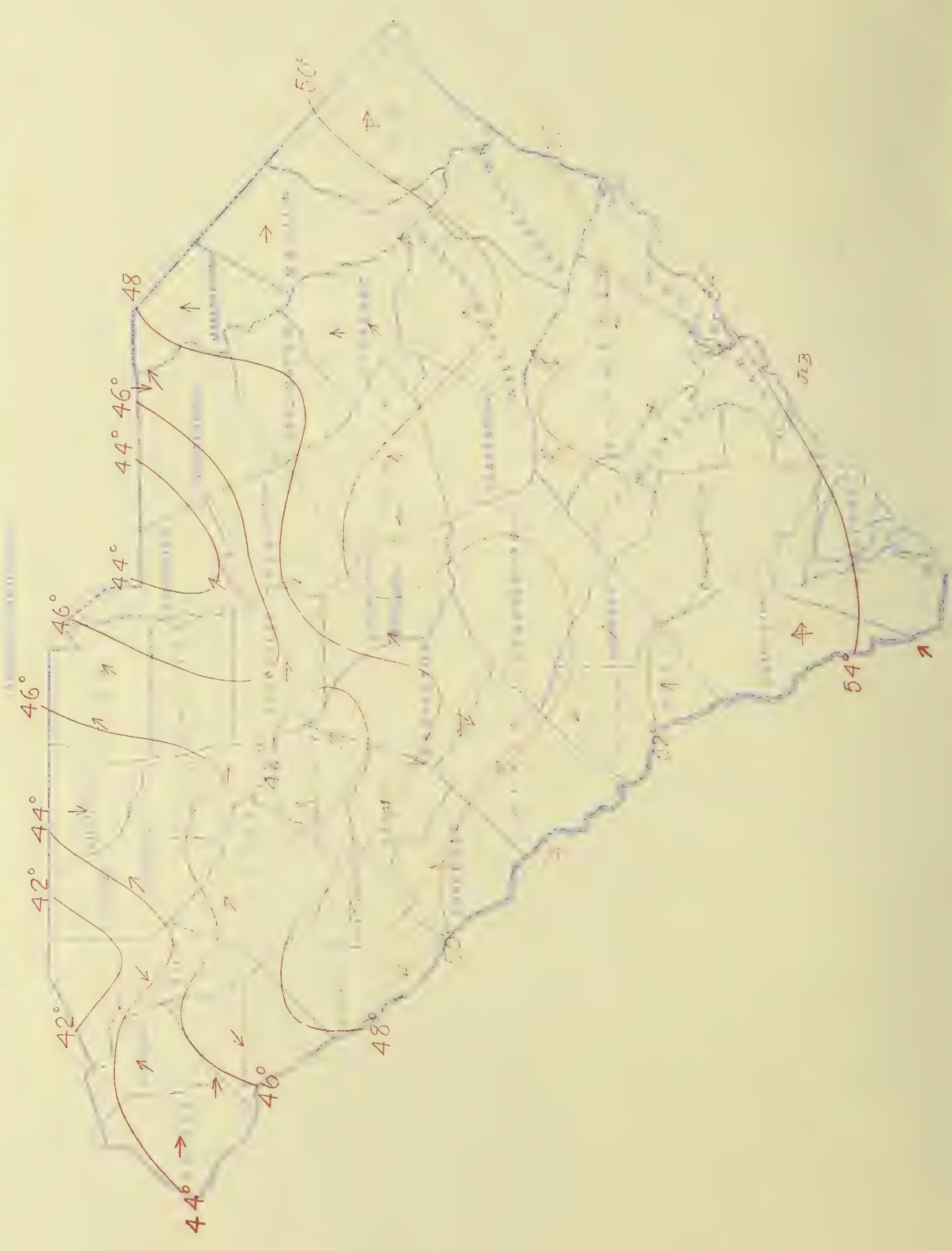
SECTION DIRECTOR.



RALEIGH, N. C.:  
WEATHER BUREAU OFFICE,  
1903.



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U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VI. COLUMBIA, S. C., FEBRUARY, 1903. No. 2.

## PROGRESS OF FARMWORK.

The weather was unfavorable, during February, for the rapid progress of farmwork, owing to the heavy precipitation, at comparatively short intervals, over all but the immediate coast regions of the State, that kept the soil continuously wet and unfit for plowing, although, in places, some plowing was accomplished. Farmwork was restricted, as a rule, to clearing lands, and terracing them where needed, and to the hauling of commercial fertilizers. The latter was difficult owing to the soft conditions of the roads where they were used for heavy traffic.

Wheat and oats did fairly well, maintaining their previous promising condition, except that some oats were injured by cold from the 17th to the 20th. The injury was confined largely to certain types of soil, especially red lands. Few Spring oats were sown as the lands were too wet.

In the truck raising regions, along the coast, the cold weather killed some early peas and other tender vegetation, but, on the whole, the damage was slight. Growth, however, was checked for a time, but owing to subsequent warm weather truck soon regained its advanced condition.

Over the southeastern portion of the State, plum trees began to bloom early in the month, and as far west as Columbia peach blooms were noted at the middle of the month. The subsequent freezing weather killed some of the buds, but reports from the principal fruit growing sections indicate that the damage was confined largely to one variety of peaches, the Elberta.

At the close of the month, farmwork was backward with no planting done except tobacco seed beds.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for February, 1903, was 49.0°, which is 3.0° below normal. The highest local mean was 54.1° at Beaufort, the lowest 42.4° at Greenville. The highest maximum was 81° at Due West on the 15th, Gillisonville on the 16th and Seivern on the 14th; the lowest minimum was 11° at Barksdale on the 18th, making the State range 70°. The greatest local monthly range was 64° at Due

West, the least 47° at Beaufort. The mean of the daily maxima was 59.5°, of the daily minima 38.5°.

Frost.—Freezing weather and frosts occurred over the whole State on the 17th and 18th, and also in the interior on the 19th and 20th. Light frosts were also recorded at Bennettsville on the 25th and 27th.

## Precipitation, in Inches.

The precipitation averaged 7.03 inches, which is 2.34 above the normal. The greatest local amount was 12.48 at Clemson College; the least 2.07 at Charleston. The greatest 24-hourly fall was 3.90 at Florence and Camden on the 7-8th. The average number of days with rain was 10, ranging from 4 at Georgetown to 14 at Summerville.

Excessive Precipitation.—(2.50 inches or more in 24 hours): Batesburg, 8th, 2.45 in 15 hours; Beaufort, 27th, 2.45 in 7 hours; Calhoun Falls, 8th, 3.25 in 24 hours; Camden, 7-8th, 3.90 in 24 hours; Cheraw, 7-8th, 2.59 in 24 hours; Clemson College, 16-17th, 2.90 in 24 hours; Columbia, 7-8th, 3.19 in 24 hours; Darlington, 7th, 3.60 in 24 hours; Florence, 7-8th, 3.90 in 24 hours; Greenville, 15-16th, 3.00 in 24 hours; Greenwood, 7-8th, 2.74 in 21 hours; Liberty, 28th, 2.60 in 24 hours; Longshore, 6-7th, 3.80 in 24 hours; Pinopolis, 27th, 3.13 in 24 hours; Society Hill, 6-7th, 3.45 in 24 hours; Stateburg, 7-8th, 3.12 in 24 hours; Temperance, 7th, 3.50 in 24 hours; Winnsboro, 7th, 3.38 in 24 hours.

Snow.—Trace of snow was recorded at Conway on the 6th, and at Santuc on the 15th.

Sleet.—Sleet occurred at Allendale on the 5th; Beaufort, Charleston, Darlington, Gillisonville, Longshore and Summerville on the 6th; Sumter on the 7th.

Weather.—The average number of clear days was 10, partly cloudy 7, and cloudy 11.

Winds.—The prevailing direction of the wind was from the southwest at 22 stations, from the west at 10, the south at 8, the north at 7, the northeast at 6, the east at 3, and the northwest at 2.

High Winds.—Barksdale, 4; Beaufort, Gaffney, Seivern, Stateburg, 17; Blackville, 11, 16, 27; Bowman, 11, 17; Calhoun Falls, Darlington, Society Hill, Trenton, 16; Cheraw, 17, 27; Clarks Hill, 4, 17, 28; Columbia, 4, 16, 17, 28; Gillisonville, 11, 16, 17, 27, 28; Heath Springs, 4, 16, 17, 18; Liberty, 4, 8, 11, 17, 28; Longshore, 4, 16, 17, 27; Saluda, 15, 17; Spartanburg, 3, 16, 27; Sumter, 12; 17; Yorkville, 17, 18, 28.

Barometer and Wind Table for February, 1903.

STATIONS.	BAROMETER.					WIND.				
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement.	Average hourly.	Maximum velocity.		
								Miles.	Direction.	Date.
Augusta, Ga. ....	30.16	30.59	19	29.25	16	4.894	7.3	46	W.	16
Charleston, .....	30.17	30.57	19	29.27	16	8.360	12.4	46	W.	17
Charlotte, N. C. ....	30.13	30.60	19	29.21	16	5.647	8.4	48	S.W.	17
Columbia, .....	30.16	30.62	19	29.26	16	6.904	10.3	60	S.W.	16
Savannah, Ga. ....	30.15	30.55	19	29.40	16	6.341	9.4	48	W.	16
Wilmington, N. C. ...	30.13	30.59	23	29.21	16	6.789	10.1	51	W.	16
Averages.....	30.15	30.62	19	29.21	16	6.488	9.6	60	S.W.	16



## MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Beaufort, 20; Charleston, 2, 5, 6, 9, 10, 13, 17, 19, 20, 23, 25, 26; Liberty, Santuc, 25; Stateburg, 20, 23, 25.

Lunar Halos.—Charleston, 4, 5, 6, 9, 10, 13; Columbia, Liberty, Little Mountain, Seivern, 9; Gillisonville, 4, 8, 10; Stateburg, 9, 10.

Thunderstorms.—Allendale, Bowman, Due West, Trenton, Yorkville, 28; Anderson, Columbia, Stateburg, 16; Barksdale, 3; Beaufort, 11, 27; Blackville, Cheraw, Gaffney, Liberty, Longshore, Santuc, Seivern, Winthrop College, 16, 28; Charleston, Summerville, 11; Clarks Hill, 17; Darlington, 27; Little Mountain, 16, 27; Saluda, 17, 27.

Dense Fogs.—Barksdale, 27; Greenville, Longshore, Society Hill, Yorkville, 3; Beaufort, Heath Springs, Little Mountain, 3, 15; Blackville, 3, 15, 21; Camden, Clarks Hill, 15; Charleston, 3, 4, 14, 15, 16, 27; Cheraw, 3, 12, 15; Columbia, 2, 3, 8, 12, 15; Gaffney, 4, 5; Gillisonville, 3, 10, 15; Liberty, 3, 11, 15; Seivern, 1, 2, 5, 13, 14; Stateburg, 2, 3, 15.

## REMARKS BY OBSERVERS.

Allendale.—Weather exceedingly cloudy with much rain. Precipitation above normal. The close of the month was warm and rainy.—R. D. Peeples.

Barksdale.—Winter crops are doing well, although some oats were killed. There has been but little plowing accomplished, owing to the soil having been too wet.—E. V. Garrett.

Beaufort.—Mean temperature  $1.2^{\circ}$  above normal, precipitation 1.96 inches above. The proportion of clear days was much smaller than usual. The cold period of the 17-18th damaged first plantings of early peas considerably. Excessive rains have delayed plowing for corn and cotton.—S. M. Benton.

Blackville.—Mean temperature  $4.1^{\circ}$ , and precipitation 0.28 inches above normal.—G. D. C. Lange.

Bowman.—The weather was unfavorable for farmwork, which is backward. Small grain looks promising. Plum trees and some peach trees are in bloom.—B. O. Evans.

Clarks Hill.—Peach buds began swelling on the 15th, but the freeze of the 18th killed many of the buds, about three-fourths of the Elberta being killed. Other fruits uninjured. Grain was slightly injured. Ground has been too wet to plow.—Wm. S. Middleton.

Darlington.—Violent winds on the night of the 16th, damaged fences and trees only.—E. R. McIver.

Gillisonville.—Month bleak and wet; field work backward. High winds damaged trees. Plum and peach trees in full bloom. Oats in promising condition.—Sam P. Saltus.

Heath Springs.—Although there was an unusual amount

of rain this month, the farmers have made some progress in farmwork, such as clearing and terracing lands. Small grain looks well.—J. A. Weaner.

Liberty.—Only three days were dry enough to permit plowing, and but little Spring oats were sown. Winter has been too wet to sow the usual acreage to wheat, and that sown is not doing well. Some fruit buds are showing.—Jno. T. Boggs.

Little Mountain.—The cold, from the 17th to the 20th, injured oats on red lands. Wheat is fine.—Jno. M. Sease, M. D.

Longshore.—Tornadoes passed through this country on the 16th. There were three separate tornadoes, touching widely separated points; 30 or more houses were blown down; also a great deal of timber and fencing. There was a severe wind, rain and thunder storm about 5 a. m. of the 28th.—W. G. Peterson.

Saluda.—A gale at 4.30 p. m. of the 16th, destroyed the instrument shelter and blew down some houses.—Alvin Etheridge.

Santuc.—The month was rainy, and there were many high winds. Little farmwork was done, and hauling was largely suspended. The cold from the 17th to the 20th, injured small grain, but the damage was slight.—E. W. Jeter.

Society Hill.—Preparation for Spring crops is very backward, owing to continued and excessive precipitation. Small grain is fine, particularly oats. Temperature  $3^{\circ}$  below and precipitation 3 inches above normal.—Maj. J. J. Lucas.

Stateburg.—Weather conditions very unfavorable for farmwork, owing to the wetness of the soil. The storm of the night of the 16th blew down the steeple of the church and damaged the structure to the extent of about \$3,000.—W. W. Anderson, M. D.

Summerville.—Vegetation budded, but many buds were killed by ice on the 17th.—Miss L. R. Gadsden.

Temperance.—The raingage was overturned by wind on the 11th and again on the 16th, making the rainfall measurement incomplete.—J. R. Reaves.

Trenton.—On the night of the 16th, the winds blew down some barns, small houses, and some trees. Precipitation 2.97 inches more than the normal, and 3.15 more than the average for the first two months.—C. A. Long.

ERRATA.—January, 1903, report, page 5, Clemson College mean temperature  $39.2^{\circ}$ , should be  $39.4^{\circ}$ ; same page, Seivern maximum temperature  $71^{\circ}$  on the 29th, should be  $75^{\circ}$  on the 1st. Page 6, mean of the maximum temperatures at Clemson College  $50.0^{\circ}$ , should be  $50.4^{\circ}$ .



CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY, 1903.

STATIONS.	Counties.	Elevation—feet.	Length of record years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.				Sky.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.		Number overcast days.	
Aiken	Aiken	565	2	51.6		58	14	17	18	50	8.55		1.80		9	17	5	6	sw.	C. F. McGahan, M. D.
Alendale	Barnwell	186	15	55.1	+1.8	62	16	28	17	47	7.56	+4.07	2.28		11	12	1	15	S.	R. D. Peoples.
Anderson	Anderson	744	2	46.8	+3.9	60	13	15	18	40	8.40	+2.46	1.70		9	9	11	8	ne.	R. B. Denn.
Augusta, Ga.	Richmond	131	32	50.4	0	76	15	26	18	33	7.46	+3.50	1.95		9	10	7	11	NW.	Weather Bureau.
Barksdale d.	Laurens	780	2	47.6		60	14	11	18	51	11.10		2.80		10	7	9	8	SW.	E. V. Garrett.
Batesburg	Lexington	656	15	48.4	+3.0	76	14	17	18	41	11.10	+4.87	2.15		11	13	1	11	N.	E. J. Hite.
Beaufort	Beaufort	28	17	51.1	+1.3	74	16	27	18	31	5.48	+1.96	2.45		11	5	11	12	S.	S. M. Borden.
Bennettsville	Marlboro		2	49.9		74	14	21	18	41	8.35		1.70		10	11	6	8	S.	Jno. L. McCall.
Blackville	Barnwell	296	15	50.1	+4.2	79	14	20	18	41	3.78	1.21	1.20		11	9	13	6	ne.	G. D. C. Lange.
Bowman	Orangeburg	160	2	53.0		79	14	21	18	43	3.74		1.05		8	10	13	5	W.	B. O. Evans.
Calhoun Falls	Abbeville	508	10								9.27	+4.83	3.25		11	13	1	11	ne.	P. J. Padgett.
Camden	Kershaw	222	37								7.87	+3.98	3.90		10	11	4	13	N.	G. E. Bateman.
Charleston	Charleston	48	34	53.9	+1.1	73	2	24	18	35	2.07	-1.25	0.57		11	4	14	10	SW.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	25	46.3	+1.3	69	28	17	18	28	6.02	+1.51	1.32		10	9	7	12	SW.	Weather Bureau.
Cheraw (1)	Chesterfield	144	15	47.0	+0.7	72	*15	20	18	42	8.06	+3.74	2.59		11	11	1	16	N.	W. R. Godfrey.
Cheraw (2)	Chesterfield	144	10								7.61	+2.84	2.36		11	12	5	11	SW.	Jno. H. Powe.
Clarks Hill	Oconee		1	50.3	+0.4	75	*14	17	18	36	9.20		2.25		10	10	7	11	W.	Wm. S. Middleton.
Clemson College	Richland	850	12	42.2	+1.9	60	14	15	18	40	12.48	+7.03	2.00		12	8	7	13	W.	Prof. C. C. Newman.
Columbia	Columbia	351	16	50.0		74	15	19	18	28	7.30	+3.12	3.10		11	9	9	10	SW.	Central Office.
Conway	Horry	25	12	51.2		77	16	23	18	34	3.75	-0.83	1.10	T.	8	8	4	16	W.	P. Quattlebaum.
+Darlington	Darlington	175	8	49.0		77	14	22	*17	43	8.54	+3.58	3.60		13	12	3	13	W.	E. R. McIver.
Due West d.	Abbeville	740	2	48.6		81	15	17	18	44	7.84		2.09		9	15	5	7	W.	Rev. O. Y. Bonner.
Edisto	Bamberg	127	10								5.39	+0.68	1.10		11	12	4	12	SW.	J. L. Padgett.
Edinburg	Florence	106	11								5.38	+0.76	2.25		6	13	3	12	SW.	H. B. McCall.
Florence	Florence	136	15	48.8	+1.8	75	*15	23	18	43	6.85	+1.72	3.90		8	12	2	14	S.	H. K. Gilbert.
Gaffney	Cherokee	893	7	44.8		72	28	16	18	46	9.02	+1.72	3.90		12	11	4	13	N.	B. F. Camp.
Georgetown	Georgetown	12	10	52.9	+5.0	75	17	24	18	40	4.50	-1.14	1.50		4	21	1	6	ne.	W. T. Turbeville.
Gilsumville	Hampton	50	8	53.2	+3.2	81	16	23	18	36	3.74	-0.94	1.55		9	9	1	15	W.	Sam P. Saitus.
Greenville	Greenville	989	11	42.4	+2.2	67	28	13	18	39	11.59	+6.71	2.92		10	11	2	15	ne.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	15	44.5	+1.9	70	*15	16	18	45	9.26	+4.37	2.74		10	12	4	12	W.	M. M. Calhoun.
Heath Springs	Lancaster	2	12	43.6		70	15	16	18	32	8.08		2.04		10	9	7	12	SW.	J. A. Weaver.
Kingstree (1)	Williamsburg	54	15	49.3	+2.7	74	16	22	18	46	4.99	+1.00	2.00		8	7	11	10	SW.	W. H. Edwards.
Kingstree (2)	Williamsburg	54	9								5.02	-0.90	2.02		8	9	7	12	SW.	W. H. Matthews.
Liberty	Pickens	900	9	45.2	+4.0	67	13	14	18	32	10.73	+5.30	2.60		10	12	3	13	SW.	Jno. T. Boggs.
Little Mountain	Newberry	711	10	49.6	+4.3	74	14	18	18	30	10.27	+5.07	2.48		11	7	13	8	SW.	John M. Sease, M. D.
+Longshore	Newberry	530	10	48.0	+4.6	72	14	18	18	36	10.87	+5.15	3.80		13	7	7	14	S.	W. G. Peterson.
Ingoff	Kershaw	168	2																	W. J. Burdell, M. D.
Pinopolis	Berkeley	54	10	52.0	+4.3	74	28	26	18	26	5.64	+0.94	3.13		8	8	7	13	E.	E. P. Ravenel.
St. Georges	Dorchester	109	15	60.6	+2.7	77	*15	22	18	48	3.07	-1.10	0.83		10	7	6	15	SW.	W. B. Raysor.
St. Matthews	Orangeburg	269	15	49.6	+3.2	76	15	22	18	44	4.79	+0.03	2.00		9	8	6	14	SW.	J. S. Wannamaker.
St. Stephens	Berkeley	73	11								4.64	+0.28	2.23		11	12	3	13	N.	C. T. Shuler.
Saluda e.	Saluda	536	2	47.4		75	14	14	18	36	9.23		1.76		11	13	10	5	SW.	Alvin Etheridge.
Santee	Union	512	10	45.6	+3.4	71	28	17	*18	39	9.75	+2.71	1.75	T.	11	9	10	9	W.	E. W. Jeter.
Savannah, Ga.	Chatham	71	34	55.4	+1.1	80	16	26	18	28	4.08	+1.00	1.79		12	6	13	9	SW.	Weather Bureau.
Severn	Aiken	482	2	48.0	-0.2	81	*14	18	17	37	7.25	+2.28	2.80		8	8	4	16	E.	J. F. Lyles.
Smiths Mills	Williamsburg	62	8								3.53	-0.66	1.45		7	11	4	13	SW.	H. van Keuren.
Society Hill	Darlington	192	12	48.8	+3.6	72	15	22	17	28	8.24	+3.04	3.30		10	12	3	13	SW.	J. J. Lucas.
Spartanburg	Spartanburg	875	12	44.5	+0.3	70	14	14	18	39	9.03	+3.59	1.73		10	12	2	14	E.	F. P. Robinson.
Stateburg	Sumter	500	23	51.6	+2.4	77	14	20	18	31	7.28	+3.25	3.12		10	8	2	18	E.	W. W. Anderson, M. D.
Summerville	Dorchester	75	6	52.4	+3.9	77	15	22	17	44	4.31	-0.50	1.87		14	7	17	4	SW.	Miss L. R. Gadsden.
Sumter	Sumter	169	2	49.8		74	16	22	17	51	4.65	2.25		11	11	3	14	S.	F. Prescott Bullock.	
Temperance	Marion	100	5	48.8	+5.4	73	*16	24	*17	40	45.66	3.50		9	11	6	11	W.	J. R. Reeves.	
+Trenton	Edgefield	620	10	50.7	+3.5	75	17	18	18	51	9.66	+2.97	2.30		9	11	3	14	S.	C. A. Long.
Trials	Berkeley	85	17	52.1	+3.1	77	15	22	18	34	5.57	+1.47	2.29		9	6	8	14	NW.	Etsell Gaillard.
Walhalla	Oconee	1061	13	44.8	0	68	*12	12	16	38	7.20	+2.88	2.00		5	13	10	5	W.	E. F. Pagan, jr.
Wilmington, N. C.	New Hanover	52	34	51.7	+1.9	76	14	23	18	33	3.54	+0.31	1.15		9	8	8	12	SW.	Weather Bureau.
Winnaboro	Fairfield	545	14	45.7	-0.9	73	14	18	18	32	8.50	+3.89	3.38		6	12	11	5	W.	John W. Seiger.
Winthrop College	York	690	4	47.2	+1.4	70	28	16	18	36	7.61	+2.92	1.35		12	11	9	8	SW.	Geo. B. Green.
Yemassee	Beaufort	23	8	51.8	+2.5	80	16	23	18	47	3.14	-1.32	1.35		10	8	1	19	SW.	R. G. Smith.
Yorkville	York	680	15	48.4	+3.4	72	13	18	18	32	6.86	+2.09	1.55		11	9	7	12	SW.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				49.0	+3.0	81	*14	11	18	54	7.03	+2.34	3.90	T.	10	10	7	11	SW.	

! Maximum thermometer not standard.  
a indicates 1 day missing, b, 2 days, etc.

+ Minimum thermometer not standard.  
‡ Incomplete (see remarks by observers.)

§ Exposed not standard.

\* On other dates also.



### STATIONS.

[illegible]



TOTAL PRECIPITATION 1896, COUNTY, 1896.



Scale of shades, in inches.





STATIONS.	Day of Month.																																	Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Aiken		.90	.20	.50			1.30	1.80			1.20					1.25											.55					8.55		
Allendale		T.	.20	.75	.25	.40	1.85	1.08			1.70					2.28										.20	.55					7.56		
Anderson		.20	.42				1.70	1.05			.29	.36			T.		1.20										1.18	1.00					8.40	
Augusta, Ga.		.31	.12	.71			T.	1.95	1.26		T.	.97				.91	T.										.59	.61					7.46	
Barksdale		.45	.20	.80			1.75	.85			.20	1.25				1.50											.85	1.25					11.10	
Batesburg			.10	.58	1.02		T.	.75	2.45			1.15	1.12			.45	1.53										.15	1.80					11.10	
Beaufort		.09	.30	.08			T.	.75	.27			1.09		.10	.01	.31					.38						2.45	.61					5.48	
Bennettsville		.51	.30				T.	1.70	1.33			1.40				1.40	1.02				.10	1.03					.80	1.03					8.35	
Blackville			T.	T.	.10	.20		1.05				.36	.40			.20	.46				.01						.20	.40					3.78	
Bowman												.90				.20	.24				.05					T.	.65	.45					3.74	
Calhoun Falls		.26	.02	.11				.71	3.25		.76	.92					1.08				.05							.32	.94					9.27
Camden			.15	.10	.40			.20	3.90		.60	.60	.65				1.25											T.	.52				7.87	
Charleston		T.	.07	.02		T.	.04	.22			.57				T.	T.	.01	T.	.17			.33						.44	.19				2.07	
Charlotte, N. C.			.19	.35			1.32	.55		.08	1.19				T.	T.	1.08	.05										.76	.45					6.02
Cheraw(1)			.11	.05	.55		.02	2.59			1.02	1.52			.01	.05	1.37											T.	.77				8.06	
Cheraw(2)			.09	.04	.49			.13	2.36	.04		.76	1.69				.17	1.14										T.	.70				7.61	
Clark's Hill			.15	.28	.70		T.	1.55	2.25		1.59						.33	.99										.67	.69				9.20	
Clemson College	.05	.53	1.86	.35				.32	1.93		1.37	.65					.10	2.90									.48	1.91					12.48	
Columbia		.08	.12	.35		T.	1.87	1.36			1.02			T.	.02	1.02	.02				.25							.						

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR MARCH, 1903.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

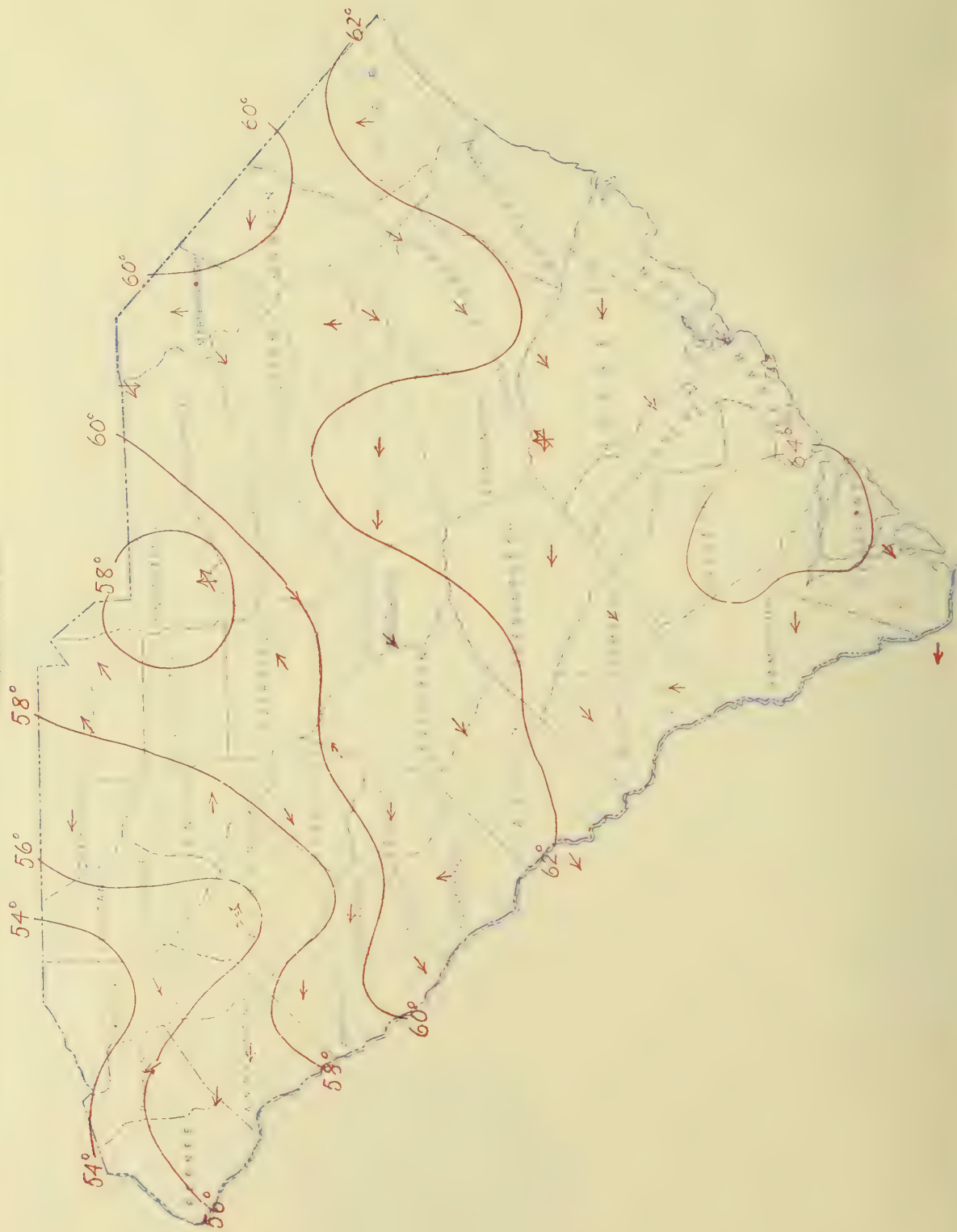


RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.

1903.



WINDY WEATHER AND PREVALENT WINDS IN THE NORTH ATLANTIC





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,

COLUMBIA, S. C.

VOL. VI.

COLUMBIA, S. C., MARCH, 1903.

No. 3.

## PROGRESS OF FARMWORK.

The month under review was the warmest March of record, and was noteworthy for the evenness of its temperature. There was a cool period on the 1st and 2nd, with thin ice and light frosts over the western portions of the State, and another cool wave crossed the State from the 25th to the 27th, that caused light frosts over all but the southeastern portions, but as a whole, the month was remarkably free from frosts. Vegetation of all kinds grew rapidly, owing to the continuous warm weather, and was in an unusually advanced stage by the close of the month. Nevertheless, farm-work was greatly delayed, and preparations for planting, and planting operations were more backward than usual, due to excessive precipitation and frequent rains, especially over the western portion of the State, and also to excessive cloudiness and light winds that kept the ground from drying and becoming fit to plow. The slow drying of the soil, by percolation instead of by surface evaporation, left it in excellent tilth, when it became dry enough to work, so that the weather conditions were not altogether unfavorable and possibly quite beneficial, though retarding farmwork. The fine condition of the soil being compensatory for the lateness of the season.

The climatic conditions were more favorable over the eastern counties than over the western ones. In the former, uplands were largely prepared for corn, cotton, and tobacco, and much corn, and some cotton were planted, and some tobacco set out, while the usual acreage of minor field crops and gardens was cultivated, planted and brought to stands. A few rice fields were planted, but most of the land devoted to this crop was too wet to work. Tobacco plants, in beds, were ready to transplant much earlier than usual, owing to the warm weather.

Wheat suffered little injury from the weather, although theessian fly damaged it in places, and some fields were attacked by rust, but its condition is generally promising. The oats crop suffered serious impairment from the ravages of an insect known as the "grain louse". Fields were first infested in the south central counties, but by the end of the month nearly every field in the eastern, central and a few western counties was affected. The plant, when infested, turns red,

then withers and dies.

Fruit trees began blooming in February and continued throughout March, and the prospects for a full crop are excellent, except in a few localities in the central Savannah valley where peaches were largely killed by the February freeze. Truck grew rapidly and shipments of strawberries, beets, peas, cabbage, lettuce and asparagus were begun from the more southerly districts. Gardens were cultivated over the whole State, and the usual amount of minor field crops planted in their season. Trees put on full foliage, and pastures afforded grazing. Owing to frequent freshets, low land oats were destroyed in the river valleys by flooding.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for March, 1903, was 60.4°, which is 5.9° above normal. The highest local mean was 64.4° at Yemassee, the lowest 54.3° at Greenville. The highest maximum was 84° at Yemassee on the 21st; the lowest minimum was 26° at Clemson College on the 1st, making the State range 58°. The greatest local monthly range was 53° at Sumter, the least was 32° at Charleston. The mean of the daily maxima temperatures was 69.4°, of the daily minima was 51.4°.

Frost.—Killing frost was noted at Little Mountain and Santuc on the 2d, Yorkville 2d, 3d; heavy frost at Gillisonville 26th, Longshore 27th. Light frosts were noted as follows: Blackville, Gillisonville, 27; Bowman, Santuc, Seivern 26, 27; Cheraw, 2, 25; Clarks Hill, Clemson College, Columbia, Little Mountain, 26; Greenville, 27, 30, 31; Longshore, 3, 26; Saluda, Sumter, Winthrop College, Yorkville, 25, 26; Summerville, 1, 25, 26; Temperance, 25.

## Precipitation, in Inches.

The precipitation averaged 5.92 inches, which is 2.16 above the normal. The greatest local amount was 11.14 at Batesburg; the least 1.53 at Bowman. The greatest 24-hourly fall was 3.75 at Florence on the 30th. The average number of days with rain was 10, ranging from 5 at Bowman to 15 at Summerville.

Excessive Precipitation.—(2.50 inches or more in 24 hours): Barksdale, 29, 2.60 inches; Beaufort, 28-29, 3.00 inches; Calhoun Falls, 29-30, 3.15 inches in 16 hours; Florence, 29-30, 3.75 inches; Gaffney, 22-23, 3.48 inches; Georgetown, 29, 2.70 inches; Liberty, 22-23, 2.90 inches; Little Mountain, 21, 3.25 in 20 hours; Longshore, 21-22, 2.58 inches; Temperance, 29, 2.63 inches; Winnsboro, 29, 3.05 inches.

Weather.—The average number of clear days was 7, partly cloudy 9, and cloudy 15.

Winds.—The prevailing direction of the wind was from the northeast at 21 stations, from the east at 14, the southwest at 7, from the south at 6, from the north at 3, from the west at 2, and from the southeast at 1.

High Winds.—High winds, reaching the velocity of a gale in places, prevailed over the whole State on the 29th. Other than this there were no high winds, and few windy days.



Barometer and Wind Table for March, 1903.

STATIONS.	BAROMETER.					WIND.				
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement.	Average hourly.	Maximum velocity.		
								Miles.	Direction.	Date.
Augusta, Ga.....	30.15	30.48	3	29.72	30	4.568	6.1	37	ne.	29
Charleston.....	30.15	30.47	3	29.73	30	7.931	10.7	55	ne.	29
Charlotte, N. C.....	30.18	30.50	3	29.74	30	4.987	6.7	32	ne.	29
Columbia.....	30.17	30.51	3	29.73	30	5.745	7.7	38	ne.	29
Savannah, Ga.....	30.13	30.44	3	29.69	29	5.602	8.0	43	ne.	29
Wilmington, N. C.....	30.15	30.47	3	29.69	30	6.048	8.1	34	e.	29
Averages.....	30.15	30.62	3	29.69	30	5.874	7.9	55	ne.	29

## MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston, 7, 8, 15, 19, 20, 21, 22, 25, 28; Stateburg, 15, 25.

Lunar Halos.—Bowman, 6, 7, 8, 9, 10, 11; Charleston, 6, 7, 8; Columbia, 6, 7; Little Mountain, 6; Stateburg, 7, 8, 10.

Thunderstorms.—Allendale, Trenton, Winthrop College, 21; Beaufort, 21, 22, 24; Blackville, Gillisonville, 21, 22; Bowman, 7; Charleston, 23; Cheraw, 8, 20, 21, 22; Columbia, Little Mountain, 8, 21, 22; Due West, 22; Gaffney, 5; Greenville, 10, 20; Liberty, 7, 20; Longshore, 5, 20, 21, 22; Saluda, 8, 21, 22, 23; Santuc, 5, 7, 20, 21, 22; Seivern, 8, 9, 21, 22; Stateburg, 7, 9, 20, 21, 22; Summerville, 2, 21, 22; Sumter, 8, 21; Trial, 7, 22.

Dense Fogs.—Barksdale, 8, 9, 10, 11; Beaufort, 5, 6, 7; Blackville, 6, 7, 8, 10, 11, 13, 20; Bowman, 5, 8, 11, 12, 13, 14; Charleston, 6, 7, 8, 10, 19; Clarks Hill, 5, 6, 12; Clemson College, 25, 28; Columbia, 6, 10, 20; Edisto, 6, 10; Gaffney, 6; Greenville, 6, 8, 10, 13, 14; Gillisonville, 5, 6, 7, 10, 11, 12, 20; Heath Springs, 6, 9, 20; Liberty, 6, 8, 9, 10, 11, 22, 23; Little Mountain, 10, 18, 19; Longshore, 7; Saluda, 6, 7, 20, 24; Santuc, 6, 10, 11; Seivern, 6, 10, 20, 27; Society Hill, 10, 20; Stateburg, 7, 8, 12, 17, 19, 20; Summerville, Sumter, 20; Temperance, 24; Trial, 7, 8, 10, 11, 20, 24; Yorkville, 6, 7, 9, 10.

## ERRATA.

In February Monthly Report, on page 3, under Climatology for the Month, make second line read "3.0° above normal", instead of "3.0° below normal". On page 5, Trenton, mean temperature 50.7, should be 49.9; Society Hill, mean temperature 48.8, should be 49.4. On page 6, Trenton, mean maximum temperature 61.8, should be 60.2.

In the Annual Summary for 1901, on page 9, at Florence, the precipitation departure for February is given as plus 2.51, it should be minus 2.51.

## FIRST BLOOMS.

The following dates on which first blooms were seen, and the first notes of birds heard, is interesting information:

Beaufort.—2nd, Jessamine in bloom; 9th, pear trees in bloom; 10th, first green peas in bloom; 18th, first "chuck-will" heard. Saluda.—8th, robbins disappeared; 24th, dogwood in bloom. Stateburg.—6th, plum trees in bloom.

## REMARKS BY OBSERVERS.

Allendale.—Another cloudy month, with precipitation excessive. Oats were nearly destroyed by lice. Corn being planted.—R. D. Peebles.

Barksdale.—On account of excessive precipitation, farmers did little farmwork. Wheat and oats look fine.—E. V. Garrett.

Batesburg.—Very little farmwork accomplished on account of rainy weather. A small insect has killed all the oats.—E. J. Hite.

Beaufort.—Mean temperature 5.4°, and precipitation 3.22 inches above normal. Precipitation since January 1st is 16.61 inches, which is 7.25 in excess of the normal for the same period. The season is early, but excessive rains delayed planting. All truck crops are early, but light. Oats promise well.—S. M. Benton.

Bennettsville.—Oats look well; corn was planted; weather favorable for plowing.—Jno. L. McCall.

Blackville.—Mean temperature 5.1°, and precipitation 0.10 inch above normal.—G. D. C. Lange.

Bowman.—There were lunar halos every night from the 6th to the 11th, that were very distinct. The month was remarkable for partly cloudy days.—B. O. Evans.

Clarks Hill.—Only one frost during the month, a light one in low places. One clear day, the others were cloudy or partly cloudy.—Wm. S. Middleton.

Gillisonville.—Month warm and wet, unfavorable for field work. Planting operations backward; no cotton planted. Some corn up, and escaped the heavy frost of 26th with slight damage. Birds necessitating much replanting.—Sam P. Saltus.

Heath Springs.—Temperature and rainfall both above normal. Not much planting accomplished. Small grain is being damaged somewhat by insects. The fruit crop is still safe.—J. A. Weaner.

Liberty.—Continuous rains kept the ground too wet to plow, and but little of that work was done. Fruit trees were badly damaged by the storm of the 29th. Planting of field crops and gardens scarcely begun.—John T. Boggs.

Little Mountain.—March was remarkable for its mild weather, and the absence of high winds.—J. M. Sease, M. D.

Longshore.—Plum trees began blooming on the 8th, peach on the 9th, cherry and apple on the 20th. Wet month and very little farmwork done. Farmwork not as far advanced as last year, and ground still very wet at the close of the month.—W. G. Peterson.

Pinopolis.—Light frosts on several mornings, with minimum thermometer at 44°, but no damage resulted to fruit or gardens.—E. P. Ravenel.



CLIMATOLOGICAL DATA FOR THE MONTH OF MARCH, 1903.

STATIONS.	Counties.	Elevation, feet.	Length of record, years.	Temperature in degrees Fahrenheit.						Precipitation in inches.						Sky.	Wind.	Observations.	
				Mean.	Highest, the bottom.	Highest.	Date.	Lowest.	Date.	Greatest daily fall.	Total.	Highest, the bottom.	Highest.	Greatest daily fall.	Total.				
Aiken	Aiken	568	2															C. E. McGahan, M. D.	
Attledale	Barnwell	186	15	62.2	6.1	80	12	38	*2	25	7.90	1.50	2.08		9	8	3	R. D. Peeples	
Anderson	Anderson	764	2	58.8	+6.9	77	18	31		31	5.65	+0.57	1.24		11	6	9	R. B. Deane	
Augusta, Ga.	Richmond	131	12	62.0	+6.5	80	20	39		39	5.95	+0.76	2.33		15	6	12	Weather Bureau.	
Barksdale	Laurens	780	2	55.2		71	0	30		31	6.30		3.60		5	2	15	E. V. Garrett.	
Batesburg	Lexington	656	15	60.3	+5.4	82	18	31	*2	11	11.11	2.11	2.39		12	7	1	I. J. Hine	
Beaufort	Beaufort	28	17	63.9	+5.1	80	19	35		34	6.31	+3.22	3.00		12	6	20	S. M. Benton	
Bennettsville	Marlboro		2	61.6		83	19	31		32	4.63		0.99		9	15	9	Jno. L. McCall.	
Blackville	Barnwell	206	15	62.1	+5.8	82	20	38		35	3.47		0.10		9	1	18	G. D. C. Lunge.	
Bowman	Orangeburg	100	2	62.5		83	20	30	27	38	1.53		0.85		5	6	20	B. O. Evans	
Calhoun Falls	Abbeville	508	10								6.93	+2.46	3.15		9	11	1	P. J. Pfeiffer.	
Canden	Kershaw	222	37								6.44	2.97	1.44		11	8	3	G. E. Babin	
Charleston	Charleston	18	31	62.5	+5.8	79	21	46		18	3.44	-0.50	1.16		12	2	22	Weather Bureau.	
Charlotte, N. C.	Mecklenburg	808	25	57.4	+7.5	77	29	31		20	5.77	+1.03	1.50		12	6	10	Weather Bureau.	
Cheraw (1)	Chesterfield	144	15	60.2	+7.2	79	21	31		32	5.01	+1.28	1.70		9	7	7	W. R. Godfrey.	
Cheraw (2)		144	10								5.10	+1.69	1.71		11	7	7	Jno. H. P. we.	
Clarks Hill		456	1	61.2		80	18	35		30	7.31		1.75		10	1	6	Wm. S. Middleton.	
Clemson College	Oconee	850	12	56.6	+3.9	76	20	26		36	8.21	2.31	2.00		11	10	2	Prof. C. C. Newman.	
Columbia	Richland	351	16	61.1	+6.9	80	20	30		25	3.90	-0.63	2.02		11	1	11	Central Office	
Conway	Horry	25	12	62.8		80	19	38	27	33	5.59	+2.02	1.42		11	7	7	P. Quattlebaum.	
*Darlington	Darlington	175	8	61.2		81	19	35	*1	32	3.80	-0.60	2.15		11	11	9	E. R. Melver.	
Due West	Abbeville	710	2	59.0		75	18	33		28	7.01		1.87		7	6	8	Rev. O. Y. Bonner.	
Edisto	Bamberg	127	10								4.59	+1.01	1.25		13	9	2	ne. J. L. Padgett.	
Edinburgh	Florence	106	11								6.28	+3.36	0.98		11	10	6	H. B. McCall.	
Florence	Florence	136	15	61.0	+5.9	80	20	37		31	8.74	+5.84	3.75		7	7	2	H. K. Gilbert.	
Gaffney	Cherokee	893	7	56.8		80	17	28		25	9.42	+4.06	3.48		13	8	8	B. E. Camp.	
Georgetown	Georgetown	12	10	63.8	+6.5	80	10	42	29	28	6.00	+2.93	2.70		10	20	2	W. T. Turbeville.	
Gillsville	Hampton	50	8	62.8	+3.5	82	22	37	*2	35	4.08	-0.84	2.00		7	7	9	Sam P. Salts.	
Greenville	Greenville	980	11	51.3	+4.6	78	21	28		34	7.35	+2.13	2.02		13	6	2	ne. Mrs. S. A. Crittenden.	
Greenwood	Greenwood	671	15	57.6	+2.9	78	21	32		27	6.46	+2.15	1.95		7	7	2	M. M. Calhoun.	
Heath Springs	Lancaster		2	57.9		86	21	31	31	40	5.35		1.56		10	6	15	sw. J. A. Weaver.	
Kingstree (1)	Williamsburg	54	15	61.1	+4.7	78	21	42	*2	28	5.71	+2.87	1.25		10	6	7	W. H. Edwards.	
Kingstree (2)		54	0								5.80	+2.96	1.39		11	7	5	ne. W. H. Matthews.	
Liberty	Pickens	900	9	57.0	+5.6	77	18	28		35	7.56	+2.50	2.90		11	8	4	se. Jno. T. Boggs.	
Little Mountain	Newberry	711	10	60.3	+5.0	81	20	32		29	8.73	+5.17	3.25		13	5	11	sw. John M. Sease, M. D.	
*Longshore	Newberry	530	10	59.6	+6.2	80	20	33		34	8.03	+3.85	2.58		13	5	5	ne. W. G. Peterson.	
Lugoff	Kershaw	108	2															W. J. Burdell, M. D.	
*Pinopolis	Berkeley	54	10	62.2	+6.6	82	9	41	25	20	3.71	-0.65	1.10		7	8	0	e. E. P. Ravenel.	
St. Georges	Dorchester	109	15	62.6	+5.8	80	20	43	*3	28	4.70	+1.41	0.95		11	8	7	ne. W. B. Raynor.	
St. Matthews	Orangeburg	269	15	61.6	+6.5	80	20	40		3	3.67	+0.48	0.85		10	7	6	J. S. Warnamaker.	
St. Stephens	Berkeley	73	11								5.53	+2.45	1.11		14	8	5	ne. C. T. Shuler.	
Saluda	Saluda	536	2	62.4		82	20	32	26	50	6.80		1.69		9	7	14	e. Alvin Etheridge.	
Santee	Union	512	10	57.9	+5.3	80	20	27		2	8.19	+3.74	1.93		9	6	9	w. E. W. Jeter.	
Savannah, Ga.	Chatham	71	34	63.8	+5.3	81	23	45		20	5.53	+1.75	3.34		13	2	21	e. Weather Bureau.	
Seivern	Aiken	482	2	60.4	+4.8	84	20	31	*3	43	3.19	0	1.57		13	5	12	ne. J. F. Lyles.	
Smiths Mills	Williamsburg	62	8								6.17	+2.71	1.85		10	7	4	ne. H. van Keuren.	
Society Hill	Darlington	192	12	60.8	+5.7	79	20	36		1	29	3.37	+0.02	1.70		6	10	1	ne. J. J. Lucas.
Spartanburg	Spartanburg	875	12	56.2	+6.0	77	*18	27		2	35	8.68	+4.47	2.25		12	7	1	F. P. Robinson.
Stateburg	Sumter	500	23	62.2	+8.1	82	20	36		2	27	4.25	+0.51	1.40		12	4	6	e. W. W. Anderson, M. D.
Summerville	Dorchester	75	6	62.5	+6.0	82	20	39	*25	28	3.09	+0.40	1.05		15	11	16	ne. Miss L. R. Gadsden.	
Sumter	Sumter	169	2	62.4		80	21	39		2	28	4.10		1.05		11	11	9	e. F. Prescott Bullock.
Temperance d.	Marion	100	5	59.8	+7.6	78	20	37		1	32	7.05	+3.58	2.63		9	12	7	e. J. R. Reaves.
+ Trenton	Edgefield	620	10	60.6	+3.4	78	18	35		2	29	7.57	+4.33	2.46		9	9	12	s. C. A. Long.
Trials	Berkeley	85	17	62.1	+7.2	81	21	38	*3	35	4.40	+0.78	1.55		10	3	16	sw. Etsell Gaillard.	
Walhalla	Oconee	1061	13															E. F. Pagan, jr.	
Wilmington, N. C.	New Hanover	52	34	60.7	+6.8	77	21	38		2	26	3.32	-0.63	1.98		9	5	14	ne. Weather Bureau.
Winnsboro	Fairfield	545	14	59.2	+7.1	78	20	33		2	30	6.56	+2.95	3.00		9	13	12	sw. John W. Seigler.
Winthrop College	York	690	4	58.4	+5.8	78	20	30		2	33	7.38	+3.12	1.52		10	10	11	sw. Geo. B. Green.
Yemassee	Beaufort	23	8	64.4	+5.8	84	21	43	*2	28	4.97	+1.92	1.85		13	5	11	ne. R. G. Smith.	
Yorkville	York	650	15	59.2	+6.1	80	20	32		2	32	9.18	+4.28	2.30		10	5	7	sw. J. E. Schorb.
MEANS—highest, lowest and dates, etc.				60.4	+5.9	84	21	26	1	50	5.92	+2.16	3.75		10	7	9	15	ne.

! Maximum thermometer not standard.

+ Minimum thermometer not standard.  
a indicates 1 day missing, b, 2 days, etc.

\$ Exposed not standard.

\* On other dates also.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MARCH, 1903.

indicators 1 day missing, b, 2 days, etc.



10" 8"





## DAILY PRECIPITATION FOR SOUTH CAROLINA, MARCH, 1903.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken																																	
Allendale				1.30	T.	T.	T.		T.						.45	T.	.55		.05			.85	1.62	.35					.65	2.08	T.		7.90
Anderson				T.	.32		.05	.11		T.	.20		T.		.03	T.	.03		T.	T.	.03	1.24	1.20						.15	1.12	.30		5.05
Augusta, Ga.				.20	.28		.08	.10	.02		.03	.01	T.	.01	.01		.02		T.		.68	2.33	.64							1.35	.19		5.95
Barksdale							.65			.20										.85						2.00			2.60			6.30	
Batesburg	.30				.45		.39	.75	.96			.85									.10	2.32	1.34						.79	2.39	.50	11.30	
Beaufort			T.	2.39	.04		.01		.05											.02	.09	T.	.50	.02					3.00			6.30	
Bennettsville								.08	.50	.04	T.	.18	T.	T.	.16		.01	T.			.75	.99	.61	.02					.55	.93		4.63	
Blackville				.04	.37	.11		T.	T.	T.	.03	T.	.40	T.	T.	T.	.15	T.			T.		.91						.26	1.21		3.47	
Bowman				.15			T.	T.	T.		T.			T.	T.	T.							.40						.85	T.		1.53	
Calhoun Falls				.11	.22		.13	.04															1.35						.92	3.15	.16	6.93	
Camden								.30	.70	.56	.69										.09	1.25	.30						.22	1.44	.09	6.44	
Charleston	T.		T.	.59	.08		T.	.02	.28				.01	T.		.03	.08				.04	.30	.72	T.					1.16	T.		3.44	
Charlotte, N. C.					.17	.01	.25	.47	.03	.14	.19	T.								T.	.13								.88	.42	T.	5.77	
Cheraw(1)							.19	.14				.13	T.								.60	1.48	.66	.04					T.	1.70	.07	5.01	
Cheraw(2)	.77			T.	T.	T.	.12	.12	.01		T.	.08	T.								.71	1.26	.52	.03					T.	1.74	.04	5.40	
Clark's Hill				.23	.30		.03	.18	.39												.91	1.37	1.75						1.50	.65		7.31	
Clemson College				.07	.32	.02	.10	.17	.28	1.64	.02										.65	2.00							.64	1.56	.11	8.21	
Columbia				.12	.08	.02	.02		.25	.01	.02	.01								T.	T.								1.77	.31		3.90	
Conway	.35				.06			.75	.50	.35											.87	.29	.16						1.21	1.42		5.59	
Darlington				.01			.21	.01	.32	.04	T.	.02																		2.15	T.		3.80
Due West				T.	.21			.67		.44												1.87	1.44						.20	.76	.62	7.01	
Edisto					.10	.17	.10	.60		.16			.10					.06				.06	.81	.14					.34	1.25		4.59	
Effingham	.98				.15			.90		.50											.26	.35	.97	.47					.25	.95	.50	6.28	
Florence							.12	.14	.40	.90	1.50	.45											1.49						.25	3.75		8.74	
Gaffney							.40	.45		.25	1.20		T.								.48	.56	3.48						.24	3.20	.18	9.42	
Georgetown			10		.30								T.	T.							.25	.25			10							6.00	
Gillisonville				1.38									T.	T.																			4.08
Greenville					T.	.22	T.	.15	.13	.01	.68	T.	T.									.33											4.08
Greenwood					.25			.70		.36											.65	.93	2.02						.45	1.90	.09	7.35	
Heath Springs							.46	.70		.02	.30										.97	.45	1.80						.68	1.95		6.44	
Kingstree(1)																					1.00	.35	.13						1.56	.16		5.38	
Kingstree(2)	.25			T.	.25	T.		1.00	.39	.56	T.										T.								.75	1.25		5.74	
Liberty	.25			.01	.24	T.		1.03	.36	.57	T.										T.								.73	1.29		5.80	
Little Mountain				T.	.50	.05	.10	.04	T.	.12	2.00	T.			T.	T.	T.				T.	T.										7.56	
Longshore				.12	.09		.12	T.	.43	.04	.34	T.	.03								.30	.70	2.70						1.10	.15		7.56	
Lugoff				.18	.11	.04	.09	.04	T.	.04	.01											3.25	1.50	.18					1.90	.58		8.03	
Pinopolis								.68													1.17	.47	2.43	T.					.76	2.58	.06	8.73	
St. Georges				.36										.16																			3.71
St. Matthews				.30	.50	.50		.95	.20	.08																				.15	.75		4.70
St. Stephens				.22	.21	.12	T.		.05	.15																				.75	.85		3.67
Saluda					.23			.95	.38	.03	.37		.06																	.25	1.11		5.53
Santuc					.25				.20	.04	.03										.08	1.32	1.52							.69	.78		6.80
Savannah, Ga.					.04	.10		.48	T.			T.				.02	T.		T.		1.02	1.21	1.93									8.19	
Seivern	T.		T.	1.32	.01	.03			.01	.01											.03	.01	.39		T.					1.52	.96		5.55
Smiths Mills				.16	.14	T.	.02	.10																						3.27	.07		3.19
Society Hill	.30			.20		.12		.50	T.	1.10	T.										.63	.44	1.00							1.57	3.00		6.17
Spartanburg							.11	.06	.22	.05		2.25	.04								.07	.55	.65							.15	.70		3.77
Stateburg				.10	.07		.38		.97		.07		.04								.12	.60	.38	1.00						1.23	.19	.10	8.68
Sunnerville								.04	.05	.03		.13																					4.25
Sumter	.66			.12	.40		.01		.94	.05	.03			T.			.05	.01		.01	.11	1.05	.03						.25	T.	.80		3.09
Temperance					.02		1.20	1.02	.36	.03												.35	.13	.53	T.								4.10
Trenton				.30	.16		T.		.44												.13	1.58	.04							.07	2.63		7.05
Trial				.30	.05		1.55	.11	.05	T.		.03										2.46	.57	1.65						1.45	.51		7.57
Walhalla																					T.	T.	.85	.35						.98			4.40
Wilmington, N. C.				T.	T.	T.		T.	.06	.02	T.	T.																		.09	1.98		3.32
Winnboro				.22				.08	.45	.03		.44										1.03	1.26	.05						3.00	.05		6.56
Winthrop College				T.	.09		.47	.35		.04	.52											1.08	1.25	1.52						T.	.98	1.08	7.38
Yemassee	.42			.45	.98	.01			T.	.03											.02	.43	.03	.29	.02					.39	1.85		4.97
Yorkville				T.	.19		.41	.22		.11	1.09	T.										1.62	1.28	2.30						1.13	.83		9.18

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1903.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

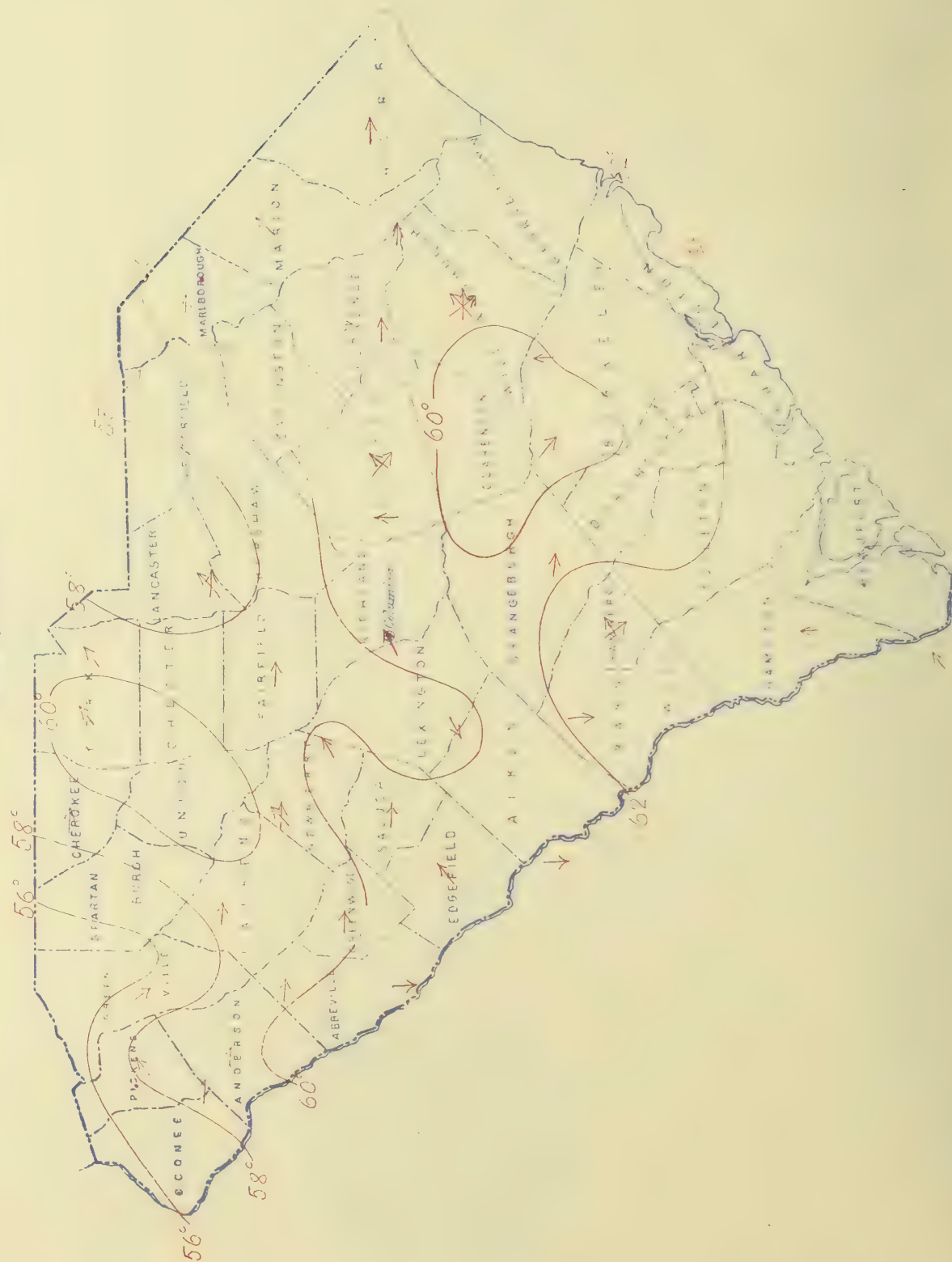


RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1903.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL, 1907

Arrows fly with the wind





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VI.

COLUMBIA, S. C., APRIL, 1903.

No. 4.

## PROGRESS OF FARMWORK.

The weather conditions that prevailed during the month of April were in direct contrast to those of the preceding month as regards temperature and precipitation. The mean temperature for the two months was the same, that of the month under consideration being about three degrees below the normal while that of March was about three degrees above normal. This abnormal temperature condition greatly retarded the growth of all crops, and more especially so in the western half of the State, where the heavy rains on March 29th and April 8th and 15th caused the ground to become and remain thoroughly soaked. The rainfall in the eastern half of the State being comparatively light during the first half of the month, accompanied by the warmer temperature characteristic of that portion, afforded a more favorable opportunity for growth. Farming operations made very good progress during the greater part of the month in the eastern sections, but were seriously delayed in the western counties during the first two weeks, due to the heavy rains rendering the soil too wet for cultivation. Frosts occurred over a large portion of the State on the 5th, 18th, 23rd and 24th, ranging from light in the central and eastern counties to killing in the northwest portion; with no serious results except to tender vegetation in the latter locality. Hail storms occurred on the 20th, 22nd and 26th, doing little damage to crops except in Marion and adjoining counties where tobacco plants were considerably injured.

Cotton planting was finished during the month in all except the western counties, and many fields in the eastern counties have received their first cultivation, but the continuous cold weather has been very unfavorable for the germination of the seed and growth of the plant, causing the latter to look sickly and, in some instances, to necessitate replanting.

Corn generally came up to stands but owing to the serious destruction by birds and worms, and the poor germination caused by the cool weather, a large acreage was injured to such an extent as to make an entire replanting necessary.

Oats have headed and were ripening in the southeastern counties at the close of the month. The prevalence of lice

and rust will greatly diminish the yield. Wheat is also badly affected by rust.

Tobacco transplanting has been completed in the eastern counties, and is becoming general in the western, but is making very little or no growth during the continued period of unfavorable weather conditions.

Rice remains at a standstill. Truck gardens are doing fairly well, but are much in need of warmer weather.

The fruit prospects continue promising, with the exception of pears which are being seriously affected by blight, a result of the unfavorable weather conditions.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for April, 1903, was  $60.4^{\circ}$ , which is  $1.7^{\circ}$  below normal. The highest local mean was  $63.2^{\circ}$  at Beaufort, the lowest  $55.6^{\circ}$  at Greenville. The highest maximum was  $88^{\circ}$  at Bennettsville and Yorkville on the 29th, and at Seivern on the 30th; the lowest minimum was  $26^{\circ}$  at Clemson College on the 1st, making the State range  $62^{\circ}$ . The greatest local monthly range was  $60^{\circ}$  at Clemson College, the least was  $40^{\circ}$  at Beaufort. The mean of the daily maxima temperatures was  $71.8^{\circ}$ , of the daily minima was  $48.9^{\circ}$ .

Ice.—Ice formation was reported from Cheraw on the 5th, Darlington 4th, and Longshore 5th, 24th. The temperature was cold enough for ice over the western tier of counties on the mornings of the 4th and 5th.

Frosts.—Killing frost was noted as follows: Barksdale, Cheraw, 5, 24; Clemson College, Stateburg, 5; Darlington, 4; Gaffney, Liberty, 24. Heavy frost as follows: Columbia, 5; Gillisonville, 18, 24; Greenville, 24; Little Mountain, 18, 23, 24. Light frosts: Blackville, Little Mountain, Trial, 5; Bowman, Edisto, Effingham, Heath Springs, 5, 24; Clarks Hill, Seivern, 5, 23, 24; Clemson College, 16, 22, 23; Columbia, 18, 24; Conway, 5, 18, 24; Gaffney, 5, 16; Gillisonville, Winthrop College, 24; Greenville, 23; Kingstree, St. Stephen, 5, 16, 24; Longshore, 5, 17, 18, 23; St. Matthews, 16, 23, 24; Saluda, Sumter, 18, 23, 24; Summerville, 4, 17; Yemassee, 16, 24; Yorkville, 5, 23, 24, 25.

## Precipitation, in Inches.

The precipitation averaged 2.95 inches, which is 0.66 below normal. The greatest local amount was 5.55 at Liberty, the least 0.85 at Beaufort. The greatest 24-hourly fall was 3.05 at Liberty on the 13th. The average number of days with rain was 8, ranging from 3 at Beaufort to 13 at Bennettsville.

Excessive Precipitation.—Liberty, 13th, 3.05 in 15 hours; St. Matthew, 25-26th, 2.75 in 10 hours.

Snow.—Greenville, 15, and flurries eastward to Chesterfield county on the same date.

Hail.—Blackville, 25; Cheraw, 12; Conway, Liberty, 20; Florence, 26; Smiths Mills, 21; Temperance, 20, 21; Winthrop College, 14; Yorkville, 17.

Weather.—The average number of clear days was 14, of

\* The mean temperature for March, 1903, was also  $60.4^{\circ}$ .



partly cloudy 9, and of cloudy ones 7.

Winds.—The prevailing direction of the wind was from the west and southwest at 16 stations each, from the northwest at 8, from the south at 6, from the north at 2, and from the northeast at 1 station.

High Winds.—Beaufort, 20, 21, 22; Bowman, 3, 4, 22; Charleston, Little Mountain, Society Hill, 3; Clarks Hill, 13, 14, 15; Columbia, 3, 4, 8, 13, 14, 22; Gillisonville, 4, 14, 15; Heath Springs, 3, 4, 14; Liberty, 14, 15, 30; Longshore, 14, 15; Saluda, Seivern, Sumter, Yorkville, 4; Summerville, 3, 4, 13; Trial, 3, 4, 14, 22, 25, 27.

Barometer and Wind Table for April, 1903.

STATIONS.	BAROMETER.					WIND.				
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement.	Average hourly.	Maximum velocity.		Date.
								Miles.	Direction.	
Augusta, Ga.....	29.68	30.37	28	29.46	14	5,512	7.6	30	nw.	4
Charleston.....	29.67	30.38	28	29.45	14	8,461	11.8	35	s.	3
Charlotte, N. C.....	29.95	30.39	28	29.38	14	5,746	8.0	27	sw.	3
Columbia.....	29.67	30.41	28	29.44	14	6,967	9.7	36	sw.	14
Savannah, Ga.....	29.99	30.38	28	29.47	14	6,793	9.4	32	w.	4
Wilmington, N. C.....	29.93	30.39	6	29.36	14	7,122	9.9	40	w.	14
Averages.....	29.96	30.39	28	29.42	14	6,767	9.4	40	w.	14

MISCELLANEOUS PHENOMENA (with dates).

Lunar Eclipse was noted on the evening of the 11th at a number of stations.

Solar Halos.—Charleston, 5, 6, 7, 8, 11, 13, 19, 20, 26, 30; Stateburg, 3.

Lunar Halos.—Allendale, 4, 10; Charleston, 2, 3, 7, 8, 10, 11; Gillisonville, 10; Stateburg, 3, 5.

Fogs.—None reported.

Thunderstorms.—Beaufort, 8, 12, 13, 19, 25; Blackville, 12, 13, 25; Bowman, 8, 12, 20; Cheraw, 12, 13, 20; Clarks Hill, 25; Conway, Sumter, 20; Florence, 26; Gillisonville, 8, 13, 19, 20, 26; Greenville, 19; Heath Springs, 13; Liberty, 3, 8, 13, 20; Little Mountain, 3, 25; Longshore, 3, 8, 13, 25; Seivern, 8, 19; Smiths Mills, 21; Stateburg, 12, 13, 14, 20, 25, 26; Summerville, 8, 12, 13; Temperance, 20, 21; Trenton, 12, 25, 26; Trial, 7, 11, 13, 20; Winthrop College, 13, 14; Yorkville, 8, 13. Summarized, there were 60 storms on 13 dates as follows: 3 on the 3rd; 1 on the 7th; 8 on the 8th; 1 on the 11th; 8 on the 12th; 12 on the 13th; 2 on the 14th; 3 on the 19th; 9 on the 20th; 1 on the 21st; 1 on the 23rd; 7 on the 25th; and 4 on the 26th. Other stations reporting thunderstorms were Charleston, 12, 13, 20, 26; Columbia, 8, 12, 13, 20, 25, 26.

NOTES.

The report from Santuc was received too late to be used in the summary.

The first appearance of migratory birds was noted at the following stations: Longshore, 12th, first whippoor-will; Saluda, 9, first whippoor-will; Society Hill, 19th, first humming bird; Stateburg, 11th, first large brown fly-catcher, 19th, first summer red-bird.

REMARKS BY OBSERVERS.

Allendale.—Partial eclipse of the moon on the evening of the 11th. Corn, cotton and melons up to good stands. The oats crop is almost a failure. Fruit is promising.—R. D. Peeples.

Anderson.—The latter part of this month was favorable for farm work, but corn and cotton planting were not finished, and but little was up by its close.—R. B. Dean.

Batesburg.—Farm work made considerable progress during the month. Some cotton came up, but its growth was checked by the frosts of the 23-24th. Some fields of wheat and oats were so badly damaged that they were plowed up and planted to other crops.—E. J. Hite.

Barksdale.—Farm work was rushed during the last two weeks of April, and cotton planting was finished. Pear trees are almost killed by blight.—E. V. Garrett.

Beaufort.—Cool nights, with dry and windy weather continued throughout the month, so that cotton came up with difficulty. Some early planted cotton was hoed and thinned. Weather favorable for killing grass. Oats generally a failure. Temperature was  $2.7^{\circ}$ , and precipitation 1.35 inches below normal.—S. M. Benton.

Bennettsville.—Cotton planting made rapid progress, and the warm weather at the close of the month caused it to come up well. Corn looks well. Small grain damaged by rust.—Jno. L. McCall.

Blackville.—Monthly mean temperature  $3.8^{\circ}$ , and precipitation 0.69 inch below normal.—G. D. C. Lange.

Bowman.—The low temperatures of the month resulted in poor germination and slow growth of all crops. Peaches are promising. Plums are not a full crop. Pear trees blighting badly. There is a large crop of early figs, and the berry crop will be plentiful.—B. O. Evans.

Gillisonville.—Month dry and cold, and unfavorable for germination. Frost, with damaging effect, occurred on the 18th, 23rd, 24th. Bud worms injured corn, making replanting general. The greater part of the cotton crop was planted but not all of it came up, as seed rotted in the ground. Month closed with gardens and field crops in poor condition.—Sam P. Saltus.

Heath Springs.—Cotton was nearly all planted, but corn planting will continue into May. Small grain improved during the month. Fruit is promising. The month closed with favorable weather.—J. A. Weaner.

Santuc.—The killing frosts of the 5th and 24th were not general, but in low places vegetation was killed; some fruit was killed; gardens escaped owing to their lateness. Winds prevented frost on other dates.—E. W. Jeter.



CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1903.																				
STATIONS.	Counties.	Elevation—feet.	Length of record—years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.				Observer.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall in inches.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number overcast days.		
Aiken	Aiken	565	2	62.4	-2.1	84	20	48	5	30	2.60	+0.35	0.65		16	4	10		L. M. Coward.	
Allendale	Barnwell	186	15	62.4	-2.1	84	20	48	5	30	2.60	+0.35	0.65		16	4	10		R. D. Peeples.	
Anderson	Anderson	704	2	60.0	-0.1	87	20	34	5	35	3.10	-0.36	0.97		14	15	1		R. B. Dean.	
Augusta, Ga.	Richmond	134	32	61.4	-2.8	81	10	39	5	34	3.83	+0.49	1.74		10	15	11	4	Weather Bureau.	
Barksdale	Laurens	280	2	59.6		85	20	30	5	34	1.74	2.15			8	12	11	1	E. A. Garrett.	
Batesburg	Lexington	656	15	59.9	-2.6	85	20	31	5	41	1.31	+0.26	1.00		9	17	5	5	E. J. Hils.	
Beaufort	Beaufort	28	17	63.2	-2.7	81	20	41	5	35	0.85	1.45	0.51		3	18	2	5	S. M. Benton.	
Bennettsville	Marlboro	2	2	61.1		88	20	33	5	37	3.92	1.08			13	14	10	6	Geo. L. McCall.	
Blackville	Barnwell	266	15	62.0	2.1	87	20	32	5	49	4.29	+0.69	2.31		10	13	16	1	G. D. C. Lange.	
Bowman	Orangeburg	160	2	62.0		87	30	37	5	41	2.04	0.99			5	19	11	0	B. O. Evans.	
Calhoun Falls	Abbeville	508	10								1.82	-2.29	0.55		7	23	2	5	P. J. Pfeiffer.	
Camden	Kershaw	222	37																G. E. Bateman.	
Charleston	Charleston	48	34	63.1	-1.5	82	30	41	5	23	0.96	-2.62	0.35		7	10	17	3	Weather Bureau.	
Charlotte, N. C.	Mecklenburg	868	25	58.8	-0.9	83	20	32	5	29	3.28	-0.26	1.75		13	10	7	13	Weather Bureau.	
Cheraw (1)	Chesterfield	144	15	59.0	-2.6	85	20	32	5	36	2.97	-0.30	1.32		12	10	7	13	W. R. Godfrey.	
Cheraw (2)		144	10								3.78	0.07	1.20		12	12	7	11	Geo. H. Powe.	
Chicks Hill	Edgefield	456	1	61.2		86	20	35	5	34	2.08	0.66			7	9	10	10	Wm. S. Middleton.	
Clemson College	Oconee	850	12	57.4	-1.8	86	20	26	4	44	4.17	+0.27	2.24		7	8	18	4	Prof. C. C. Newman.	
Columbia	Richland	351	10	60.8	-2.8	85	20	35	5	29	3.11	+0.33	1.51		10	11	11	8	Central Office.	
Conway	Marion	25	12	60.8		87	30	34	30	53	2.50	0.34	0.85		7	12	4	14	P. Quattlebaum.	
Darlington	Darlington	175	8	60.6		85	30	33	4	34	2.63	-1.71	0.85		9	17	4	9	E. R. McIver.	
Due West	Abbeville	740	2	59.8		82	20	35	5	32	1.70	0.66			6	13	10	7	Rev. O. Y. Bonner.	
Edisto	Barnwell	127	10								3.03	-0.78	1.12		8	14	5	11	J. L. Padgett.	
Edinburg	Florence	106	11								3.97	+0.99	0.80		8	13	6	11	H. B. McCall.	
Florence	Florence	136	15	60.8	1.2	85	30	35	5	32	3.28	-0.03	1.10		6	10	4	16	H. K. Gilbert.	
Gaffney	Cherokee	893	7	58.6		87	30	30	5	38	3.61	+2.24	0.98		10	12	6	12	B. F. Camp.	
Georgetown	Georgetown	12	10																W. T. Turbeville.	
Gillsonville	Hampton	50	8	62.4	2.2	85	20	35	5	43	0.95	-2.50	0.68		5	19	4	7	Sam P. Sauts.	
Greenville	Greenville	989	11	55.6	-2.1	83	20	29	5	41	4.47	+0.06	1.55		7	17	4	9	Mrs. S. A. Crittenden.	
Greenwood	Greenwood	671	15	59.8	-1.3	84	20	35	5	31	2.01	-1.90	0.41		8	17	2	11	M. M. Calhoun.	
Heath Springs	Lancaster	2	2	56.6		84	30	28	5	32	4.54	2.40			10	12	9	11	J. A. Weaver.	
Kingstree (1)	Williamsburg	54	15	60.0	-2.9	84	20	35	5	38	2.64	-0.05	0.95		6	13	5	12	W. H. Edwards.	
Kingstree (2)		54	9								2.32	0.88	0.95		6	15	6	9	W. H. Matthews.	
Liberty	Pickens	900	9	58.6	-1.4	87	20	31	24	40	5.55	+1.23	3.05		6	13	13	4	John T. Boggs.	
Little Mountain	Newberry	711	10	60.9	-1.3	85	30	34	5	31	3.04	-1.39	1.13		11	9	17	4	John M. Sease, M. D.	
Longshore	Newberry	530	10	59.6	-1.8	86	20	34	5	37	2.35	-2.07	0.61		10	12	9	9	W. G. Peterson.	
Lugoff	Kershaw	168	2																W. J. Burdell, M. D.	
Pinopolis	Berkeley	54	10																E. P. Ravenel.	
St. Georges	Dorchester	109	15	61.2	2.4	85	20	38	5	34	1.97	1.23	0.68		8	17	4	9	W. B. Rayson.	
St. Matthews	Orangeburg	260	15	60.2	-3.8	84	20	38	5	38	6.02	+2.40	2.75		10	12	8	10	J. S. Wannamaker.	
St. Stephens	Berkeley	73	11								1.68	-1.10	0.50		9	12	7	11	C. T. Shuler.	
Saluda	Saluda	536	2	61.2		86	20	34	5	37	2.23	-0.75	2.66		9	16	11	2	Alvin Etheridge.	
Santee	Union	512	10	58.4	-1.5	86	20	30	5	40	1.75	+0.75	2.66		8	14	9	7	E. W. Jeter.	
Savannah, Ga.	Chatham	71	34	63.7	-2.4	83	30	45	5	26	1.53	-1.94	0.77		4	13	14	3	Weather Bureau.	
Savannah	Aiken	482	2	59.2	4.9	88	30	31	23	44	4.29	-0.06	2.25		9	17	6	7	J. F. Lyles.	
Smiths Mills	Williamsburg	62	8								3.00	-1.02	1.30		9	13	4	13	H. van Keuren.	
Society Hill	Darlington	192	12	61.2	-1.1	84	30	35	4	30	3.69	-0.54	1.27		8	13	9	8	J. J. Lucas.	
Spartanburg	Spartanburg	875	12	57.8	-2.6	87	20	28	5	37	4.43	+0.27	1.50		8	16	4	10	F. P. Robinson.	
Stateburg	Sumter	500	23	61.9	-0.9	85	20	34	5	29	2.99	-0.10	0.97		10	10	6	14	W. W. Anderson, M. D.	
Summerville	Dorchester	75	6	61.0	-1.6	83	30	37	4	35	2.65	-2.40	0.98		11	18	0	3	Miss L. R. Gadsden.	
Sumter	Sumter	169	2	60.7		84	30	36	5	33	1.98	-1.07			8	15	12	3	F. Prescott Bullock.	
Temperance	Marion	100	5	60.1	-0.1	85	30	35	4	32	2.39	-2.56	0.60		8	13	13	4	J. R. Reeves.	
Trenton	Edgefield	620	10	61.0	-3.7	84	30	35	5	34	2.59	-1.54	1.20		8	17	11	2	C. A. Long.	
Triana	Berkeley	85	17	58.8	-3.1	84	30	35	5	41	2.23	-0.34	0.85		8	10	12	8	Etsell Gaillard.	
Walhalla	Oconee	1061	13																J. D. Isbell.	
Wilmington, N. C.	New Hanover	52	34	61.0	-0.5	86	30	35	5	32	2.05	-0.91	1.13		12	11	8	11	Weather Bureau.	
Winnabow	Fairfield	545	14	59.2	-2.0	84	20	32	5	31	2.54	-0.39	1.31		4	20	9	1	John W. Seigler.	
Winthrop College	York	690	4	59.6	-1.8	84	20	33	5	33	3.02	-0.34	1.61		8	16	12	2	Geo. B. Green.	
Yemassee	Beaufort	23	8	62.8	-1.2	83	10	39	5	38	1.90	-1.17	1.09		5	14	10	6	R. G. Smith.	
Yorkville	York	680	15	62.1	+0.5	88	20	34	5	34	3.68	-0.10	1.85		8	10	8	12	J. R. Schorb.	
MEANS—highest, lowest and dates, etc.				60.4	-1.7	88	20	26	4	53	2.95	-0.66	3.05		8	14	9	7	W.	

|| Maximum thermometer not standard.

+ Minimum thermometer not standard.  
a indicates 1 day missing, b, 2 days, etc.

\$ Exposed not standard.

\* On other dates also.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING APRIL, 1903.

STATIONS.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31																															Monthly mean.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		Min.	Max.			
Aiken.....	71	46	81	54	82	60	60	45	38	70	59	78	62	71	63	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	72.9			
Alendale.....	75	40	78	51	87	66	66	50	34	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	72.1			
Anderson.....	74	40	80	52	86	50	71	44	59	39	70	40	65	40	65	40	65	40	65	40	65	40	65	40	65	40	65	40	65	40	65	40	65	72.5			
Augusta, Ga.....	73	45	77	51	78	38	71	41	59	39	70	40	65	40	65	40	65	40	65	40	65	40	65	40	65	40	65	40	65	40	65	40	65	70.9			
Barksdale.....	80	41	80	44	80	30	68	52	31	71	42	74	44	76	55	31	71	42	74	44	76	55	31	71	42	74	44	76	55	31	71	42	74	88.4			
Batesburg.....	74	57	76	59	72	61	68	52	41	70	59	78	62	71	63	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	73.9		
Beaufort.....	72	42	80	50	80	60	60	45	38	70	59	78	62	71	63	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	72.8		
Bennettsville.....	74	57	76	59	72	61	68	52	41	70	59	78	62	71	63	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	72.5		
Blackville.....	78	44	82	58	84	57	61	75	42	51	54	72	64	71	63	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	74.9		
Bowman.....	77	45	82	49	83	60	68	40	62	57	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	74.4	
Charleston.....	70	54	79	55	82	49	68	40	62	57	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	70.9	
Charlotte, N. C.....	71	44	77	55	76	68	58	35	32	62	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	70.2		
Cheraw.....	74	42	79	50	83	55	48	35	32	62	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	70.2		
Clemson College.....	77	45	80	58	80	57	75	41	62	55	72	44	73	51	63	74	54	74	54	74	54	74	54	74	54	74	54	74	54	74	54	74	54	74	71.0		
Columbia.....	74	46	80	54	80	54	68	45	36	58	68	43	74	57	75	60	74	57	75	60	74	57	75	60	74	57	75	60	74	57	75	60	74	57	75	71.2	
Conway.....	71	43	74	47	80	60	60	45	38	70	59	78	62	71	63	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53	73	72.9		
Darlington.....	76	45	80	56	80	56	70	47	35	60	40	70	50	70	50	70	50	70	50	70	50	70	50	70	50	70	50	70	50	70	50	70	50	70	72.8		
Due West.....	73	46	76	52	74	57	41	57	35	67	45	60	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	43	78	50	72	71.5		
Florence.....	72	45	80	51	81	60	57	50	35	66	43	70	52	62	73	49	72	49	72	49	72	49	72	49	72	49	72	49	72	49	72	49	72	49	72	71.5	
Gaffney.....	70	38	74	46	78	54	40	38	30	68	65	35	65	55	68	41	74	52	63	55	68	41	74	52	63	55	68	41	74	52	63	55	68	41	74	71.1	
Georgetown.....	74	40	76	50	77	41	60	40	30	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	71.9		
Gilsumville.....	78	45	81	51	83	61	70	45	39	35	74	47	70	51	74	61	75	53	84	49	80	55	83	49	80	55	83	49	80	55	83	49	80	55	83	72.9	
Greenville.....	72	36	76	41	75	51	35	35	28	34	70	45	52	72	50	58	44	70	45	52	70	45	52	70	45	52	70	45	52	70	45	52	70	45	52	70	70.8
Greenwood.....	72	43	77	56	80	42	57	35	68	38	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	54	70	68.7	
Heath's Springs.....	66	40	74	42	80	50	42	30	28	30	68	38	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	68.7	
Kingstree (S. C.).....	68	47	76	46	80	54	40	35	30	60	40	67	48	78	54	60	52	74	40	84	53	74	40	84	53	74	40	84	53	74	40	84	53	74	71.9		
Liberty.....	74	40	76	50	77	41	60	40	30	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	40	60	72.0		
Little Mountain.....	76	46	80	51	83	61	70	45	39	35	74	47	70	51	74	61	75	53	84	49	80	55	83	49	80	55	83	49	80	55	83	49	80	55	83	72.4	
Longshore.....	74	42	78	51	79	59	54	44	30	64	49	72	57	74	62	75	54	76	45	77	54	76	45	77	54	76	45	77	54	76	45	77	54	76	71.0		
Lugoff.....	74	42	78	51	79	59	54	44	30	64	49	72	57	74	62	75	54	76	45	77	54	76	45	77	54	76	45	77	54	76	45	77	54	76	71.0		
Pinopolis.....	68	48	75	48	80	57	41	38	30	60	40	67	48	78	54	60	52	74	40	84	53	74	40	84	53	74	40	84	53	74	40	84	53	74	72.8		
St. Georges.....	66	47	73	48	79	56	40	30	28	30	68	38	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	54	70	42	74	72.0	
St. Matthews.....	77	50	80	53	80	53	65	45	33	63	44	71	42	75	56	70	56	84	45	77	56	70	56	84	45	77	56	70	56	84	45	77	56	84	73.3		
Saluda.....	74	38	79	45	79	57	42	37	30	66	41	74	56	70	56	74	40	74	56	70	56	74	40	74	56	70	56	74	40	74	56	70	56	74	72.3		
Santee.....	76	55	77	58	78	62	60	47	55	45	71	52	75	60	74	62	71	50	81	55	76	61	77	61	77	61	77	61	77	61	77	61	77	61	77	72.7	
Savannah, Ga.....	78	43	80	51	83	61	70	45	39	35	74	47	70	51	74	61	75	53	84	49	80	55	83	49	80	55	83	49	80	55	83	49	80	55	83	74.7	
Savannah.....	72	52	79	61	80	51	50	35	35	40	60	55	73	61	72	50	71	53	78	52	71	53	78	52	71	53	78	52	71	53	78	52	71	53	78	70.5	
Society Hill.....	73	40	78	44	77	52	34	38	28	34	70	45	52	72	50	58	44	70	45	52	70	45	52	70	45	52	70	45	52	70	45	52	70	45	52	70	72.4
Spartanburg.....	75	47	80	55	82	61	70	40	38	34	70	42	70</																								



## 4 =





## DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1903.

STATIONS.	Day of Month.																															Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Aiken							.15	.62				T.	.45	.32		T.				T.	.08						.65	.33				2.60
Allendale							.67					T.	.06	.97	.85					T.	.15					.20	.20					3.10
Anderson													.02	1.07	.01					T.	.04						.99	.75	.01			3.83
Augusta, Ga.			.29				.25	.40					.34	.10	.33						.30						.46	.50				4.74
Barksdale			.15					.85				.10									.25											3.31
Batesburg							.23	.94						.51						.04							T.					0.85
Beaufort							.30					T.	.01	1.08	.10	.04				.08	.45		.01			.26	.92	.39				3.92
Bennettsville			.15				.03	.40				T.	.66	.25	.02				T.		.07	.05					.23	.13				4.29
Blackville			.15				.10	.55					.25	.20	T.					.15							.99					2.04
Bowman			.45				.45							.29	.18					.22							.18					1.82
Calhoun Falls			.18				.55	.22																								
Camden												T.	.04	.12	T.	T.		T.		.01	.10	T.					.22					0.96
Charleston			.12				T.	T.	.35			T.																				
Charlotte, N. C.		T.		.23			T.	.12	.20			.02		1.75	.13	T.	.03			T.	.01		.03	.01		.24	.49	.02				3.28
Cheraw(1)			.13					.14	.27				.01	.13	.17	.07	.03				.04	.26		T.			1.32	.40				2.97
Cheraw(2)			.14					.10	.28				T.	.97	.35	.07	.01				.03	.24		.01			1.20	.38				3.78
Clark's Hill			.35				.19	.52				T.	T.	.13	T.					T.						.21	.66					2.08
Clemson College			.30				.80					T.	2.24							.07	.29					.33	.14					4.17
Columbia			.20				.01	.46				T.	.27	.25	.01		T.			T.	.17		T.			.90	.61	.23				3.11
Conway			.12						.16					.20							.45						.85	.61				2.50
Darlington		.10					T.	.40				T.	.06	.39	.14	T.				.07	.01		T.									1.70
Due West			.15				.10	.66					.37	.17							.25		T.									1.03
Edisto			.25				.08	.50					.06	.30						T.	.35					1.12	.37					3.97
Effingham			.25				.47	.10						.70	.30					.30	.60						.80	.70				3.28
Florence							.58							.50						.25	.05					1.10	.80					3.61
Gaffney							.03	.73	.03					.76	.98	.40					.25	.11		.05			.27					
Georgetown			.08									T.	T.	.68						T.							.08					0.95
Gillisonville			.30				T.	.75	.05				1.40	1.55							.13					.29						4.47
Greenville			.30				T.	.31	.41					.32	.05						.10	.12					.40					2.01
Greenwood			.30				T.	.50				.01	2.40	.03	.02					.01	.17					.15	.95					4.54
Heath Springs			.30				T.	.40					.52	.20		.10					T.						.47	.95				2.04
Kingsree(1)			.04				T.	.40					.35		.11					T.							.47	.95				2.32
Kingsree(2)			.40				T.	1.50				T.	3.05	T.	T.					T.	.25					.30	.05					5.55
Liberty		.22					.10	.69				.02		.14	.01	T.				.06	.47		T.			.16	1.13	.04				3.04
Little Mountain		.33					.10	.61				T.	.04	.20	.01					.09	.32		T.			.44	.21					2.35
Lugoff																																
Pinopolis																																
St. Georges			.16				.10	.12					.20	.10						T.	.02						.59	.68				1.97
St. Matthews			.22				.14	.16				.40	1.00	.08						.70	.04					2.75	.53					6.02
St. Stephens			.11				.05	.27					.15	.12	.11					.05	.12					.50	.25					1.68
Saluda			.30				.11	.67				T.	.06							.06	.05					.23	.60	.15				2.23
Santee			.30				.04	.72				T.	2.66	T.	T.					T.	.08					.33	.40	.13				4.75
Savannah, Ga.			.09					.14				T.	.77	T.						T.	.53						T.					1.53
Seivern		.29					.22	.44				T.	.27	.56	.03		T.			T.	.02					2.25	.21					4.29
Smiths Mills								.20					.15	.20	.20					.15	.30			.25		1.30	.25					3.00
Society Hill		.12					.43					1.15	.23	.05						.11						1.27	.30					3.69
Spartanburg			.08				.03	.70	T.				.95	1.50						.69	.24					.24	T.					4.43
Stateburg			.16				T.	T.	.54			T.	.02	.55	.03					.02	.32					.50	.47	.38				2.99
Summerville			.11				.01	.02	.37			T.	.98	.90			.01			.68	.01					.09	.07					2.65
Sumter			.20				T.	.06					.01	.29	.08					T.	.17						1.07	.10				1.98
Temperance			T.				T.	.47				T.	.47	.06						.11	.28		.05			.60	.35					2.39
Trenton			.42				.22	.41					.02	.18						.10						1.20	.04					2.59
Trial			T.				.11	.38				T.	.15	.04						.25						.85	.10	.35				2.23
Walhalla																																
Wilmington, N. C.			.08				.02	.08					.04	.05	.07	T.				.11	1.00	.13	.20				.23	.03				2.05
Winnsboro							.35						.50													1.31	.38					2.54
Winthrop College			.40				.02	.40				T.	1.61	.17	T.	T.				.07		T.				.23	.10					3.02
Yemassee							.01	.38					T.	1.09	.35					T.						.07	.07					1.90
Yorkville			.42				.11	.51				T.	1.85	.04	T.					T.	.14		T.			.30	.31					3.68

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR MAY, 1903.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1903.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MAY 1906.

Arrows fly with the wind





U. S. DEPARTMENT OF AGRICULTURE.

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VI. COLUMBIA, S. C., MAY, 1903. No. 5.

### PROGRESS OF FARMWORK.

The May weather conditions can be divided into two periods, as they affected crops, the first including the first 15 days, the second, the remainder of the month. During the first period the weather was unfavorable on crops of all kinds. The temperature was uniformly low, the soil dry especially over the western and northern portions of the State, and there was a lack of sunshine. There was sufficient precipitation over the southeastern counties for all crops, and crops were damaged by too much rain in Beaufort county. Seed planted late in April germinated poorly in the dry sections, and such crops as were up grew slowly. Much corn and cotton was replanted owing to their unsatisfactory stands.

During the second period there was somewhat more precipitation in the western counties, and temperatures were decidedly higher throughout the State, with a few days of abnormally hot weather at the beginning of the third decade. The heat and moisture stimulated crop growth, and caused replanted fields of corn and cotton to come up to full stands. There were, however, limited areas that were too dry for seed to germinate. Tobacco began to "button" low, showing signs of too early maturity. Corn was undersized to the end of the month, and on bottom lands continued to be damaged by worms. Cotton was small and had irregular stands, but, as a rule, was well rooted and healthy. Fruit prospects remained unimpaired; some early peaches ripened and were marketed. There was a marked improvement in oats toward the close of the month, and a slight improvement in wheat. The former began to ripen, and some was harvested.

Staple crops were backward, or late, but most of the minor crops were as far advanced as usual at this season. Fields were well cultivated, and free from grass and weeds. Notwithstanding the favorable weather near its close, the month was adverse, except on the trucking interests whose shipping season was somewhat longer than usual.

### CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for May, 1903, was 70.7°, which is 0.9° below normal. The highest local mean was

72.9° at Sumter, the lowest 67.0° at Greenville. The highest maximum was 104° at Sumter on the 25th; the lowest minimum was 44° at Heath Springs on the 1st, and Due West on the 2nd, making the State range 60°. The greatest local monthly range was 55° at Georgetown and Heath Springs, the least was 37° at Beaufort. The mean of the daily maximum temperatures was 80.8°, of the daily minimum temperatures 60.6°.

Precipitation, in Inches.

The precipitation averaged 2.69 inches, which is 0.67 below normal. The greatest local amount was 11.97 at Beaufort, the least 0.25 at Liberty. The greatest 24-hourly fall was 5.33 at Beaufort on the 15th. The average number of days with rain was 9, ranging from 1 at Liberty to 16 at Summerville.

Excessive Precipitation.—(2.50 inches or more in 24 hours): Beaufort, 5.20 in 4 hours, 45 minutes.

Hail.—There were two general hail storms, on the 4th and 26th. The one on the 4th was, in places, very severe, and destroyed all vegetation in its pathway. Fortunately the season was early enough to permit replanting of field crops. —(Ed.) Anderson, 3; Beaufort, Cheraw, Conway, Florence, Gillisonville, St. Matthews, 4; Little Mountain, 4, 5, 28; St. Stephens, 5; Spartanburg, 27; Summerville, Trenton, 26.

Weather.—The average number of clear days was 12, of partly cloudy 9, and of cloudy ones 10.

Winds.—The prevailing direction of the wind was from the northeast and east at 16 stations each, from the southeast at 5, from the south at 4, from the southwest at 3, from the west at 2, and from the northwest at 1 station.

High Winds.—Beaufort, Lugoff, 9; Bowman, 8, 9; Charleston, 8, 9, 10; Columbia, Gillisonville, 12; Liberty, 8 to 15 inclusive, Trial, 9, 10.

### MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston, 6, 12, 13, 14, 23, 25, 28; Cheraw, 4; Stateburg, 12.

Lunar Halos.—Allendale, 3; Charleston, 6, 11, 12, 13; Columbia, 6; Gillisonville, 10, 30, 31.

Dense Fogs.—Gillisonville, 18, 19; Heath Springs, 6; Liberty, 4; Seivern, 5, 6, 30, 31; Society Hill, 29.

Thunderstorms.—Allendale, 3, 22, 26, 27, 29; Beaufort, 3, 4, 7, 21, 25, 26, 27; Blackville, 4, 21, 25, 26, 27, 28; Bowman, Trial, 21, 25, 26; Cheraw, 4, 21, 24, 27, 28; Clarks Hill, 26, 28; Clemson College, 3; Conway, Florence, 4; Darlington, Winnsboro, 23; Gillisonville, 15, 21, 25, 26, 27; Greenville, 26; Liberty, 3, 26, 28, 29, 30, 31; Little Mountain, 4, 5, 28, 29; Longshore, 3, 14, 26, 28; Lugoff, 3, 21, 24, 27, 29; Pinopolis, 5, 25; Santuc, 13, 28; Seivern, 25; Society Hill, 28; Stateburg, 4, 21, 25, 26, 28; Summerville, 4, 6, 26; Sumter, 29; Trenton, 4, 21, 26, 27, 28; Trial, 21, 25, 26; Walterboro, 4, 21, 25, 27; Winthrop College, 23, 27, 28, 29; Yorkville, 23, 28.

Summarized, there were 91 storms on 19 dates, as follows: 6 on the 3rd, 10 on the 4th, 2 on the 5th, 1 on the 6th, 1 on



the 7th, 1 on the 13th, 1 on the 14th, 1 on the 15th, 10 on the 21st, 1 on the 22nd, 4 on the 23rd, 2 on the 24th, 8 on the 25th, 13 on the 26th, 9 on the 27th, 13 on the 28th, 6 on the 29th, 1 on the 30th, and 1 on the 31st. In addition to the above, Charleston reported thunderstorms on the 24th, 25th, 28th; Columbia, 4th, 21st, 24th, 26th, 27th, 28th.

Barometer and Wind Table for May, 1903.

STATIONS.	BAROMETER.					WIND.				
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement.	Average hourly.	Maximum velocity.		
								Miles.	Direction.	Date.
Augusta, Ga. ....	30.06	30.24	2	29.82	15	4.955	6.7	24	e.	12
Charleston. ....	30.07	30.27	2	29.80	15	10.081	13.4	53	ne.	9
Charlotte, N. C. ....	30.10	30.36	2	29.90	15	4.902	6.7	35	w.	24
Columbia. ....	30.08	30.31	2	29.86	15	6.188	8.3	26	ne.	12
Savannah, Ga. ....	30.05	30.23	2	29.76	15	6.841	9.2	35	ne.	8
Wilmington, N. C. ....	30.07	30.29	2	29.87	15	6.795	9.1	32	ne.	9
Averages. ....	30.07	30.36	2	29.76	15	6.627	8.9	53	ne.	9

## REMARKS BY OBSERVERS.

Allendale: Month closed warm and favorable for farmwork. Corn, cotton and melons, as well as all minor crops, are promising. Fruit deteriorating.—R. D. Peebles.

Batesburg: The weather has been favorable for all crops. Fruit shipments began about the middle of the month. The yield of grain crops was better than formerly expected.—E. J. Hite.

Beaufort: Mean temperature  $2.8^{\circ}$  below, precipitation 9.54 above normal. The month, as well as the whole season, has been unfavorable for all crops, in some instances disastrous. Some fields were planted 3 and 4 times. Latter part of the month was more favorable.—S. M. Benton.

Bennettsville: Oats ripened. Weather favored cotton. Corn doing well.—Jno. L. McCall.

Blackville: Mean temperature  $1.5^{\circ}$ , and precipitation 1.37 above normal.—G. D. C. Lange.

Bowman: The month was remarkable for fine weather for farmwork, but unusually cool weather prevailed until after the 15th, when it became abnormally hot, with a maximum of  $99^{\circ}$ .—B. O. Evans.

Darlington: A heavy hail storm on the 4th covered a large portion of the county, and in places destroyed cotton and tobacco. Fortunately the season was early enough to permit replanting.—Hon. E. R. McIver.

Gillisonville: The first half of the month was cold and wet, the last warm and dry, bringing the first genial days of

the season, and caused a general revival of crops. Oats made wonderful improvement. Crops that were plowed up and replanted are in better condition than those not so treated.—Sam P. Saltus.

Heath Springs: Small grain ripened, and harvest began, with yields better than expected. Corn is doing well. Cotton has poor stands. Fruit prospects good, with peaches ripening.—J. A. Weaner.

Liberty: There were sprinkling rains, but none that was beneficial until the 31st. Much corn and cotton failed to come up owing to dryness.—Jno. T. Boggs.

Lugoff: Month unusually cold. Cotton and corn are late, but both improved rapidly after the 15th. The oats harvest was begun; crop poor. The fruit crop is promising.—W. J. Burdell, M. D.

St. Matthew: Heavy hail storm at 2 p. m. of 4th that damaged young crops and gardens very much. It was the largest hail that has ever been seen here; some of the stones were the size of birds eggs.—J. L. Wannamaker.

Santuc: The greater part of the month was too cool for growth of cotton, but weather favorable towards the close. The maximum temperature of  $101^{\circ}$  on the 24th is the highest on record for May.—E. W. Jeter.

Society Hill: The oats crop improved and harvest was begun. Cotton is late, and the plants are small. Corn and tobacco suffered from lack of sunshine and moisture.—Maj. J. J. Lucas.

Stateburg: Crops improved rapidly during the hot spell from 15th to 27th, and cultivation made rapid progress owing to the absence of rain. Refreshing showers near the close aided the rapid and vigorous growth of all crops.—W. W. Anderson, M. D.

Summerville: Thunderstorms on 4th and 26th brought hail; stones gathered from the latter measured  $1\frac{1}{2}$  inches long, 1 inch wide and  $\frac{1}{4}$  inch thick; some were longer, others thicker than these.—Miss L. R. Gadsden.

Trenton: Severe hail storm on the 4th damaged fruit, and all field crops in its path had to be replanted. Another hail storm on 26th did damage in this vicinity. Precipitation 0.44 below normal, and 4.60 more than the average for the first five months of the year.—C. A. Long.

Yorkville: Abnormally dry month. Unfavorable for field crops and gardens.—J. R. Schorb.



CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1903.

STATIONS.	COUNTIES.	Elevation, feet.	Length of record, years.	Temperature—in degrees Fahrenheit.						Precipitation—in inches.					Sky.					Observer.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, in inches.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number overcast days.	Prevailing direction of wind.	
Aiken	Aiken	408	2																	L. M. Coward.
Allendale	Barnwell	186	15	72.0	-0.6	98	24	55	3	28	5.21	-1.51	1.23		11	13	5	1	e.	R. D. Peoples.
Anderson	Anderson	764	2	71.4	+2.1	100	21	50	3	33	2.56	-0.88	0.06		6	12	11	1	e.	R. B. Dean.
Augusta, Ga.	Richmond	131	32	71.7	-0.3	95	24	57	3	27	3.69	+0.24	1.52		11	9	10	12	ne.	Weather Bureau.
Barksdale	Laurens	780	2																	E. A. Garrett.
Batesburg	Lexington	656	15	70.9	-0.8	100	22	51	*2	35	3.27	-0.39	1.10		7	14	5	12	ne.	E. J. Hite.
Beaufort	Beaufort	28	17	71.3	-2.8	94	*23	57	2	21	11.97	-9.54	5.13		12	11	10	10	ne.	S. M. Benton.
Bennettsville	Marlboro		2	71.7		100	21	49	2	37	1.11	0.82			7	15	11	4	se.	Jno. L. McCall.
Blackville	Orangeburg	206	15	71.6	1.6	98	*22	53	6	33	5.18	-1.37	1.61		10	14	7	10	ne.	G. D. C. Latta.
Bowman	Abbeville	160	2	71.2		99	24	52	6	33	2.03		1.70		11	9	15	7	e.	B. O. Evans.
Calhoun Falls	Kershaw	508	10								1.74	-1.73	0.52		4	23	2	6	ne.	P. J. Pfeiffer.
Camden	Charleston	222	37								3.50	+0.25	1.60		8	15	6	10	e.	H. G. Carrison.
Charleston	Charleston	48	34	71.1	-1.3	94	24	53	2	23	4.85	-0.83	1.47		11	8	13	10	ne.	Weather Bureau.
Charlotte, N. C.	Mecklenburg	808	25	69.8	+1.4	95	23	51	2	27	0.53	-3.81	0.33		8	10	8	13	ne.	Weather Bureau.
Cheraw (1)	Chesterfield	141	15	70.0	-1.1	94	24	48	2	30	2.85	-1.08	1.25		7	12	6	13	ne.	W. R. Godfrey.
Cheraw (2)	Edgefield	141	10								2.09	-1.11	1.52		7	14	9	8	e.	Jno. H. Powe.
Clarks Hill	Oconee	356	1	71.2		97	24	53	6	31	2.69	-0.81	0.81		9	7	6	18	ne.	Wm. S. Middleton.
Clemson College	Richland	850	12	69.4	-0.9	99	23	48	*5	10	0.60	-2.61	0.19		6	7	19	5	e.	Prof. C. C. Newman.
Columbia	Horry	351	16	71.0	-1.4	97	24	53	2	26	2.39	-1.47	1.35		13	9	11	9	ne.	Central Office.
Conway	Darlington	25	12	70.4		99	24	40	*2	36	1.60	-1.86	0.26		3	12	6	13	s.	P. Quattlebaum.
+Darlington	Abbeville	175	8	71.8		102	24	48	1	35	2.74	+0.68	1.07		8	17	8	6	ne.	E. R. McVey.
Due West	Bamberg	740	2	70.9		95	23	44	2	29	1.43		0.98		2	14	8	9	e.	Rev. O. Y. Bonner.
Edisto	Florence	127	10								1.91	-1.15	0.18		11	12	6	13	ne.	J. L. Padgett.
Edinham	Florence	106	11								2.90	-0.61	1.18		6	16	5	10	ne.	H. B. McCall.
Florence	Florence	136	15	71.7	-1.0	100	24	51	2	30	1.45	-2.29	0.60		7	16	10	5	ne.	H. K. Gilbert.
Gaffney	Cherokee	895	7	70.6		101	23	49	6	38	1.73	-0.73	0.50		10	13	6	12	ne.	B. F. Camp.
Georgetown	Georgetown	12	10	70.6	-1.4	100	24	45	8	30	2.75	-0.60	1.25		4	21	7	0	sw.	W. T. Turbeville.
Gillsville	Hampton	50	8	70.8	-3.3	95	*24	52	6	30	4.72	+2.24	1.57		10	14	5	12	s.	Sam P. Sattus.
Greenville	Greenville	989	11	67.0	-1.0	94	24	45	1	36	1.13	-2.37	0.38		5	11	4	16	ne.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	15	71.8	+0.2	96	23	53	4	28	2.61	0.99	1.38		4	11	3	17	w.	M. M. Calhoun.
Heath Springs	Lancaster		2	69.2		99	24	44	1	40	1.14		0.40		6	10	14	7	w.	J. A. Weaver.
Kingstree (1)	Williamsburg	54	15	70.8	-1.5	97	24	52	*2	28	1.35	-1.93	0.42		11	13	5	13	ne.	W. H. Edwards.
Kingstree (2)	Pickens	54	9								1.33	-1.43	0.42		16	12	5	14	ne.	W. H. Matthews.
Liberty	Newberry	900	9	71.4	+0.3	100	23	47	*1	41	0.25	-2.68	0.25		1	16	5	10	se.	Jno. T. Boggs.
+Little Mountain	Newberry	711	10	72.3	0.2	100	24	52	9	31	2.05	-1.10	0.94		10	8	13	10	se.	John M. Sease, M. D.
+Longshore	Newberry	530	10	70.8	-0.2	100	24	52	6	34	2.51	+0.01	0.84		9	11	9	11	e.	W. G. Peterson.
Lugoff	Kershaw	168	2	71.2		100	25	51	6	30	1.64		0.82		6	10	14	7	s.	W. J. Burdell, M. D.
Pinopolis	Berkeley	54	10	68.9	-1.6	90	*24	56	*2	30	5.45	-1.89	1.55		10	10	7	14	e.	E. P. Ravenel.
St. Georges	Dorchester	109	15	71.2	-1.1	96	*23	54	1	30	2.17	-0.97	0.50		12	11	5	15	ne.	W. B. Raysor.
St. Matthews	Orangeburg	269	15	70.6	-2.3	97	24	54	1	27	3.79	+0.49	1.20		13	12	6	13	ne.	J. S. Wannamaker.
St. Stephens	Berkeley	73	11								2.50	-1.56	0.93		10	12	7	12	ne.	C. T. Shuler.
Saluda	Saluda	536	2										1.28		9	11	13	7	e.	Alvin Etheridge.
Santuc	Union	512	10	69.8	-0.2	101	24	47	6	41	2.30	-0.55	2.52		9	10	9	12	e.	E. W. Jeter.
Savannah, Ga.	Chatham	71	34	71.8	1.1	96	24	59	8	23	6.30	+3.38	1.37		9	10	9	12	e.	Weather Bureau.
Seivern	Aiken	482	2	70.4	-2.1	101	24	47	*5	41	3.68	+0.72	1.37		13	10	10	11	e.	J. F. Lyles.
Smiths Mills	Williamsburg	62	8								2.20	-2.59	0.85		7	12	5	14	e.	H. van Keuren.
Society Hill	Darlington	192	12	71.8	-0.2	95	*22	51	1	26	1.81	-1.59	1.12		5	13	8	10	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	12	69.5	-1.1	99	24	48	1	36	1.59	-1.51	0.73		7	12	4	15	ne.	F. P. Robinson.
Stateburg	Sumter	500	23	72.0	+0.4	99	24	52	2	27	1.67	-1.73	0.46		7	9	7	15	e.	W. W. Anderson, M. D.
Summerville	Dorchester	75	6	70.0	-1.4	94	24	53	*1	27	5.78	+2.56	1.32		16	11	10	10	ne.	Miss L. R. Gadsden.
Sumter	Sumter	160	2	72.9		104	25	52	2	35	1.20		0.69		9	13	11	7	ne.	F. Prescott Bullock.
Temperance k.	Marion	100	5	69.4	-2.1	96	27	51	6	33	0.44	-4.86	0.21		3	11	12	4	e.	J. R. Reaves.
+Trenton	Edgefield	620	10	70.9	-3.0	98	24	54	*1	29	2.47	-0.44	0.75		9	10	13	8	s.	C. A. Long.
Trials	Berkeley	85	17	68.6	-1.8	97	24	49	6	32	2.04	-2.57	0.94		10	7	10	14	e.	Etsell Gaillard.
Walhalla, I.	Oconee	1061	13	68.7	+1.4	95	23												sw.	J. D. Isbell.
Walterboro				71.2		97	24	54	6	35	3.74		1.51		15	13	12	6	ne.	J. A. Westerberg.
Wilmington, N. C.	New Hanover	52	34	69.2	-0.5	92	24	47	2	27	2.90	-1.26	1.33		8	11	12	8	ne.	Weather Bureau.
Winnsboro	Fairfield	545	14	70.4	-1.1	98	*23	50	3	30	1.09	-2.21	0.69		4	14	16	1	se.	John W. Seigler.
Winthrop College	York	690	4	70.6	-0.8	98	24	50	2	31	0.65	-2.79	0.17		6	17	12	2	sw.	Geo. B. Green.
Yemassee	Beaufort	23	8	71.2	-3.4	97	*24	54	3	29	4.50	+2.00	1.62		14	10	7	14	ne.	W. C. Hutson.
Yorkville	York	680	15	69.8	-1.5	101	24	52	5	33	1.70	-1.88	0.39		10	5	14	12	e.	J. R. Schorb.
MEANS—highest, lowest and dates, etc.				70.7	-0.9	104	25	44	*1	41	2.69	-0.67	5.33		9	12	9	10	ne.	

|| Maximum thermometer not standard.

+ Minimum thermometer not standard.  
a indicates 1 day missing, b, 2 days, etc.

§ Exposed not standard.

\* On other dates also.



STATION.

[illegible]



# TOTAL PRECIPITATION FOR MAY, 1963.



Scale of shades, in inches.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1903.

STATIONS.	Day of Month.																															Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiken																																5.21	
Allendale			.62	.46	.02		.37	.82	.32	T.	.08	.28	.06	1.23	.68							.03				.07		.17			.09	.88	5.21
Anderson			.20	.40								.03	T.	.03	T.												.05	.01	.96			2.56	
Augusta, Ga.		T.	.61	.02			.03	.10	.04		.01	.18	.05	.74	.81							.39										3.09	
Barksdale																																	
Batesburg				1.10						.15		T.	.14	T.	.40	.10																3.27	
Beaufort	.10		.02	.91			.15	1.76	.74	.26		T.	.06	1.27	5.33													.39		.99		11.97	
Bennettsville			T.	.21	.03			.06	.01			T.										T.		.05				.16	.82			1.34	
Blackville				.29	.02			.11	.24	.01		.03	.07	.27	.31	.74						.19					T.	1.61	T.	1.29		5.18	
Bowman			.03	T.			.02	.08	.04	T.	T.	.09	T.	.06	1.70							.05				.08	.45	.03				2.63	
Calhoun Falls			.42												.52	.31														.49		1.74	
Camden				.02	1.60					.17		.16		.12	.04										.35					.04		3.50	
Charleston	.01	T.	T.	.04			.02	1.16	.43	.93		.16	.35	.55	.89							T.						T.	.09	.08	.01	4.85	
Charlotte, N. C.			.05					T.	.03	T.	T.	T.	.13	.02																		.01	
Cheraw(1)				1.25				T.	.05		.25		.06															.57	.12		.06	.58	2.85
Cheraw(2)			T.	1.52				T.	.07		.18		.07															.51			.06	.58	T.
Clark's Hill			.27	.07			T.	.04	.02		T.	T.	.37	.81	.60												.31	T.	.20			.02	2.69
Clemson College	.16		.10					T.		.07					.06																	.19	0.60
Columbia			.04	.35			.01	.01	.03	.04	.24	T.	.13	.01	.11							T.			T.		T.	.07	1.18	.17		2.39	
Conway	.28				.17						.12	.26																			.35	1.60	
Darlington			.05	1.07			.30	.06			.46		.26																				2.74
Due West				1.30				T.				T.		T.																			1.43
Edisto				.10	.15		.09	.02	T.		.10	.09	.15	.08														.05	.10		.98	1.91	
Effingham					1.18				.25		.20	T.		.04																	.60	2.90	
Florence				.03	.15			.03	.60		.19		.15																		.30	1.45	
Gaffney			.02		.10			.02			.10		.35	.02															.04	.50	.46	.12	1.73
Georgetown							.50	.60			.40		T.	1.25																			2.75
Gillisonville	.10	T.		.27			.83	.17	T.		.11	.02	1.03	1.57								.60						.02				4.72	
Greenville			T.	.08									.12	.13																		.70	1.13
Greenwood				1.38											.20	.25																	2.81
Heath Springs			.12	.12				T.	T.		.15		.15																	.40	T.		1.14
Kingstree(1)			T.	.02	.09		.14	.42	.10		T.	.02	.28	.05	.12													.05	.06			1.35	
Kingstree(2)			T.	.02	.09		.14	.42	.10		T.	.02	.28	.05	.12														.05	.06			1.33
Liberty			T.								T.	T.	T.	T.	T.																		0.25
Little Mountain			.08	.36	.10		T.		.13		.12		.26	.16	.08																	.12	2.05
Longshore			.94				T.	.05	.03		.03		.06	.21																			2.51
Lugoff			.05	.53			T.	.18	T.	.02	T.																				.82	T.	1.64
Pinopolis	.35						.51			.17		.25	.80	1.55																			5.45
St. Georges		T.	T.	.05	.10		.10	.15	.06		.10	.14	.12	.15	.50																		2.17
St. Matthews		T.	T.	.35	1.20		.25	.12	.02		.06	.06	.08	.11	.75																.60		3.79
St. Stephens	.01				.05		.05	.02	.01					.37	.06	.50																	2.50
Saluda																																	
Santuc			.07	.03			T.	T.		.10	.01	.63	T.	.02																			2.30
Savannah, Ga.	.03						.63	2.44	.42	1.19	T.		.25	.15	.69																		6.30
Seivern		.19	.18	.32			.02		.01	T.	.25		.02	.16	.17							.01											3.08
Smiths Mills					.25				.15			.06	.20																				2.22
Society Hill				.30				.05			.30	.04																					1.81
Spartanburg			.02	.05				.05			.03		.31																				1.59
Stateburg			.02	.22			T.		.05	T.	.31	T.	.34	.24																			5.78
Summerville	.34		.01	1.32			.05	.59	.35	T.	.08	.24	.05	.73	.79																		1.64
Sumter			.13	.06					.03			.02	.02	.15	.04																		5.78
Temperance			.21				T.	.11		T.	T.	T.	.12																				1.20
Trenton			.25	.42			.02				.19		.24	.16																			2.47
Trial	T.		T.	T.			.07	.09	.02		.03		.15	.12	.82																		2.04
Walhalla																																	
Walterboro	.07		T.	.45			.07	.21	.29	.16	.01	.12	.20	.13	.51	T.																	3.74
Wilmington, N. C.	.14	T.	T.	1.32	.01			.20					.06																				2.90
Windsboro								T.		.10			.22																				1.09
Winthrop College			T.	T.				T.		.08		.17	.15																				0.65
Yemassee	.10		T.	.35	.05		T.	.21	.91	.09	T.	.01	.16	.27	.57	1.62																	4.50
Yorkville			.07					T.			.11	.18	.23	.04															.29	.39	.06	.27	1.70

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JUNE, 1903.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.,

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



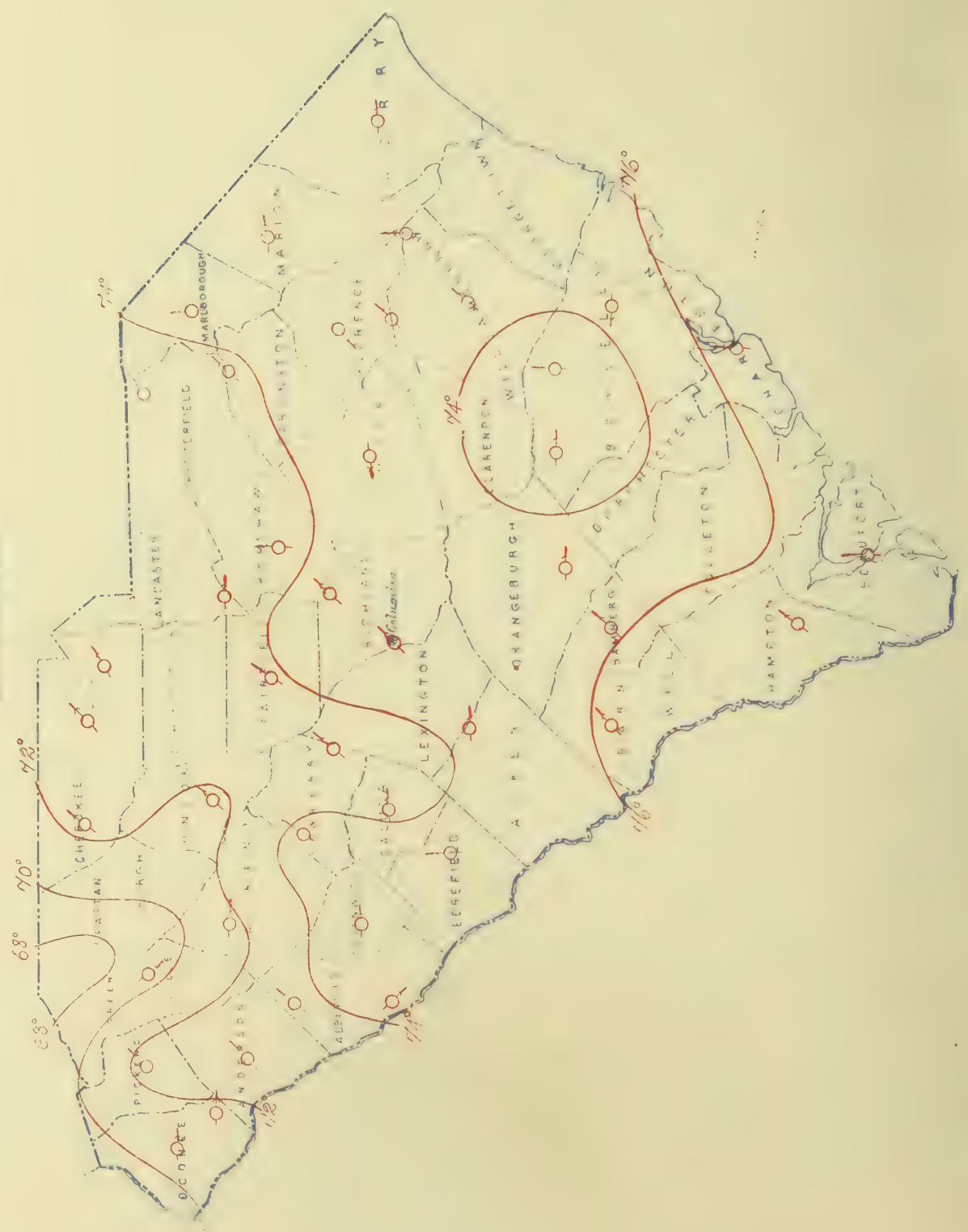
RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.

1903.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JUNE, 1880.

Isobars and the Wind.





U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VI. COLUMBIA, S. C., JUNE, 1903. No. 6.

PROGRESS OF FARMWORK.

The mean temperature was 3.7° below normal, a wide departure for a summer month. It was the coolest June on record at a number of stations. Light frost occurred on the 12th and 13th at a few places in the western counties. The precipitation was largely in excess of the normal, over all but the western part, and the excess amounted to over 12 inches in places in the east central counties.

Cool nights and excessive precipitation were inimical to crops, especially toward cotton that developed slowly and unfavorably, and failed to attain its usual growth for the season. Field crops could not be properly cultivated. Floods and erosive rains destroyed bottom land crops and hillsides, in places washing away the banks of terraced lands, but bottom lands were largely replanted to corn. Unusually severe hailstorms destroyed crops over extensive areas, necessitating much replanting. Tobacco suffered severely from the hail, but otherwise thrived. Minor crops, truck and pastures were not unfavorably affected, except melons that are later than usual. Frequent rains caused much rotting of grapes and peaches. The rains interfered with wheat and oat harvest, and damaged grain in the shock to some extent. Weather conditions became more favorable by the close of the month.

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for June, 1903, was 74.2°, which is 3.7° below normal. The highest local mean was 76.8° at Allendale and Beaufort, the lowest 68.2° at Greenville. The highest maximum was 96° at Batesburg on the 21st, and at Liberty on the 30th; the lowest minimum was 42° at Clemson College on the 13th, making the State range 54°. The greatest local monthly range was 52° at Clemson College, the least was 31° Charleston. The mean of the daily maximum temperatures was 84.1°, of the daily minimum temperatures 64.2°.

Frosts.—Light frost occurred at Anderson on the 12th, and at Longshore on the 13th.

Precipitation, in Inches.

The precipitation averaged 8.09 inches, which is 3.23 above normal. The greatest local amount was 18.42 at Stateburg, the least 3.95 at Due West. The greatest 24-hourly fall was 5.05 at Spartanburg on the 6th. The average number of days with rain was 14, ranging from 8 at Due West to 22 at Summerville.

Excessive Precipitation.—Barksdale, 5th, 2.75 inches in 24 hrs.; Bowman, 19th, 3.27 in 3 hrs. 15 min.; Camden, 7th, 2.70 in 24 hrs.; Cheraw, 9-10th, 3.17 in 15 hrs.; Columbia, 6th, 3.60 in 24 hrs.; 1st, 2.50 in 4 hrs. 50 min.; 1st 1.00 in 17 min.; 6th, 1.00 in 18 min.; Gaffney, 6th, 3.64 in 24 hrs.; Greenville, 6th, 3.82 in 24 hrs.; Greenwood, 2nd, 2.68 in 15 hrs.; Longshore, 1st, 3.75 in 10 hrs.; 1st, 2.00 in 25 min.; Lugoff, 9th, 2.92 in 4 hrs.; St. Matthews, 2nd, 2.80 in 2 hrs.; 19th, 2.10 in 2 hrs.; Saluda, 5th, 3.43 in 24 hrs.; Seivern, 1st, 5.00 in 24 hrs.; Spartanburg, 6th, 5.05 in 24 hrs.; Stateburg, 11th, 3.38 in 4 hrs. 20 min.; Sumter, 1st, 2.76 in 12 hrs.; 28th, 1.55 in 55 min.; Summerville, 11th, 1.78 in 1 hr.; Temperance, 25-26th, 4.01 in 21 hrs.; Winnsboro, 9th, 3.70 in 2 hrs.; 22nd, 1.65 in 15 min.; Yorkville, 6th, 2.53 in 24 hrs.

Hail.—Allendale, Florence, Kingstree, St. Matthews, 19; Barksdale, Seivern, 1; Blackville, 22; Bowman, 18, 19; Cheraw, 24; Darlington, 18, 20; Effingham, St. Stephens, 18; Gillisonville, 6; Greenwood, 2; Longshore, 1-9; Lugoff, 9; Society Hill, 17; Sumter, Winthrop College, 25; Walhalla, 17, 20.

Weather.—The average number of clear days was 11, of partly cloudy 10, and of cloudy 9.

Winds.—The prevailing direction of the wind was from the southwest at 25 stations, from the west at 10, from the south at 7, from the northeast at 4, from the east and northwest at 2 each, and from the southeast at 1.

High Winds.—Beaufort, 7-24; Blackville, 19; Charleston, 18; Columbia, 26; Gillisonville, 24-26; Liberty, 25; Lugoff, 9; Trial, 22.

Barometer and Wind Table for June, 1903.

STATIONS.	BAROMETER.					WIND.				
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement.	Average hourly.	Maximum velocity.		
								Miles.	Direction.	Date.
Augusta, Ga.....	29.92	30.19	3	29.69	22	3.862	5.4	30	n.	11
Charleston.....	29.94	30.21	5	29.71	22	7.630	10.6	31	e.	18
Charlotte, N. C.....	29.94	30.28	3	29.67	22	4.267	5.9	22	sw.	14
Columbia.....	29.93	30.23	3	29.71	22	4.920	6.8	40	w.	26
Savannah, Ga.....	29.94	30.19	5	29.71	22	5.214	7.2	31	ne.	8
Wilmington, N. C.....	29.91	30.24	5	29.66	22	5.750	8.0	25	nw.	18
Averages.....	29.93	30.28	3	29.67	22	5.274	7.3	40	w.	26

MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston, 1, 2, 3, 4, 13, 29; Gillisonville, 21; Stateburg, 20.

Lunar Halos.—Charleston, 3, 13, 14, 29; Gillisonville, 2, 6, 7; Little Mountain, 14.



Fogs, Dense.—Barksdale, 25; Blackville, Society Hill, 10; Liberty, 23, 26, 28, 29; Trenton, 29.

Thunderstorms.—Allendale, 2, 4, 7, 10, 19, 21; Barksdale, 1, 5; Beaufort, 1, 2, 4, 5, 6, 7, 8, 9, 11, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29; Blackville, 1, 2, 4, 6, 11, 18, 19, 21, 22, 25, 26, 27, 28; Bowman, 2, 11, 18, 19, 20, 22, 23, 26; Cheraw, 1, 6, 9, 17, 19, 20, 21, 22, 24, 25, 26; Darlington, 18, 20; Effingham, St. Stephens, 18; Florence, 17, 18, 26; Gillisonville, 1, 3, 6, 7, 8, 9, 10, 11, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29; Greenwood, 2; Heath Springs, 9, 22; Kingstree, 2, 3, 5, 6, 7, 8, 10, 12, 19, 23, 26, 27, 29; Liberty, 1, 9, 10, 11, 17, 18, 20, 26, 27, 28; Little Mountain, 1, 4, 22, 25, 26, 27; Longshore, 1, 2, 4, 5, 6, 9, 10, 11; Lugoff, 1, 2, 3, 4, 5, 9, 17; St. Matthews, Yemassee, 19; Saluda, Seivern, 1; Santuc, 2, 4, 6, 8, 10, 19, 22, 25, 28; Society Hill, 9, 17; Stateburg, 1, 2, 6, 7, 9, 10, 11, 17, 18, 19, 20, 21, 22, 26; Summerville, 1, 7, 11, 18, 19, 20, 22, 23, 25, 26, 27, 28; Sumter, 3, 6, 7, 19, 21, 22, 25, 26; Trenton, 1, 2, 4, 5, 6, 9, 10, 11, 18, 19, 20, 22, 25, 26; Trial, 2, 6, 9, 17, 18, 19, 21, 22, 25, 26, 27; Walterboro, 18, 21, 26; Winthrop College, 1, 2, 6, 10, 11, 19, 23, 25; Yorkville, 5, 10.

Summarized, there were 222 thunderstorms on 25 dates, as follows: 1st, 14; 2nd, 13; 3rd, 4; 4th, 8; 5th, 7; 6th, 12; 7th, 7; 8th, 4; 9th, 11; 10th, 10; 11th, 10; 12th, 1; 17th, 9; 18th, 14; 19th, 16; 20th, 9; 21st, 8; 22nd, 13; 23rd, 6; 24th, 3; 25th, 12; 26th, 15; 27th, 8; 28th, 5; 29th, 3.

There were also storms at Charleston, 1, 2, 6, 7, 8, 11, 18, 20, 21, 22, 23, 24, 26, 27, 28; Columbia, 1, 4, 6, 9, 10, 11, 19, 20, 21, 22, 25.

#### REMARKS BY OBSERVERS.

Anderson.—The nights were too cool for cotton, and other crops grew poorly.—R. B. Dean.

Barksdale.—Cotton did not thrive on account of too much rain, but toward the close of the month it improved. Corn and melons look fine at the close of the month.—E. V. Garrett.

Batesburg.—There was too much rain for cotton, but it looked promising and was blooming by the close of the month. Corn did well.—E. J. Hite.

Beaufort.—Mean temperature was 3.6° below normal, precipitation 1.81 above. Total precipitation since January 1st is 36.32, an excess of 17.25 over the normal. Cotton is beginning to bloom, but is uneven and generally poor, as are other crops.—S. M. Benton.

Bennettsville.—Cotton grew nicely, and is in good condition, but about 10 days late. Corn is very good.—Jno. L. McCall.

Blackville.—Monthly mean temperature 4.5° below normal; precipitation 2.59 above.—G. D. C. Lange.

Bowman.—There were a few days, early in the month, be-

fore the heavy rains set in, that had a hazy or smoky appearance. The month was unusually wet, and crops suffered from excessive moisture. There was some damage by hail.—B. O. Evans.

Darlington.—Cotton improved during the last few days of dry weather, but no blooms appeared, which makes the crop ten days late. Corn looks fairly well, but is backward. Tobacco, where not injured by wind and hail, is fine.—E. R. McIver.

Gillisonville.—Month pleasant and wet. All crops made great improvement. Corn in silk, with encouraging prospect. Cotton is small, but healthy and growing, and is putting on forms and blooming freely.—Sam P. Saltus.

Greenwood.—A severe hailstorm on the 2nd that killed all cotton and necessitated replanting over a section five miles wide and thirty miles long.—M. M. Calhoun.

Heath Springs.—Both lands and crops were damaged by the heavy rains, and it seems impossible to make full crops, although gardens and pastures are fine.—J. A. Weaner.

Kingstree.—Hail as large as a tea-cup fell on the 19th, that destroyed vegetation, and ruined corn, cotton, tobacco and gardens, in short, all crops in its path. At Lanes, ten miles south, shingles were torn from roofs, and chickens were killed, and some branches were torn and broken from trees.—W. H. Edwards.

Liberty.—Cotton chopping is just finishing. Stands of cotton are dying where worked too soon after it came up. Old cotton started to grow rapidly at the close of the month. Corn is poor.—Jno. T. Boggs.

Little Mountain.—Smoky on the 13th and 20th.—Jno. M. Sease, M. D.

Longshore.—From the 10th to the close of the month the atmosphere was smoky. The smoke would come in drifts, then lift, and again appear. The sky had the appearance of the fall season.—W. G. Peterson.

Lugoff.—The rainfall on the 9th (2.92) fell in about 4 hours. Crops are very poor, owing to an excess of rain, but improved by the close of the month.—W. J. Burdell, M. D.

St. Stephens.—Severe hailstorm in vicinity, on the 18th, that damaged crops seriously.—C. T. Shuler.

Santuc.—There were many storms, but none with high winds. Dense smoke and haze were noted on the 18th and 19th, and on several other days thin blue smoke was observed as from spring clearing fires.—E. W. Jeter.

Society Hill.—Excessive precipitation damaging to all crops. The outlook very unpromising.—Maj. J. J. Lucas.



CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1903.

STATIONS.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.					Observer.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total, snowfall included.	Number rainy days.	Number of cool days.	Number partly cloudy days.	Number cloudy days.	Prevalence of wind.		
Aiken	Aiken	505	2																	L. M. Coward	
Allendale	Barnwell	186	15	76.8	-0.9	92	*17	53	14	30	8.14	+4.59	2.06		10	15	1	14		R. D. Peoples	
Anderson	Anderson	704	2	73.4	2.5	95	21	45	12	32	7.16	+1.73	1.86		9	16	11	3	SW.	R. B. Dean	
Augusta, Ga.	Richmond	134	32	75.1	3.7	92	21	52	13	28	5.35	+0.75	1.07		12	14	12	4	SW.	Weather Bureau.	
Barksdale	Laurens	780	2	71.6		91	19	47	13	28	9.88		2.75		11	9	13	7	W.	E. V. Garrett.	
Batesburg	Lexington	650	15	73.8	5.0	96	21	46	13	30	8.63	+1.67	1.35		12	17	4	9	SW.	E. J. Hite	
Beaufort	Beaufort	28	17	76.8	3.6	91	24	59	13	27	6.89	+1.81	1.32		17	7	21	2	SW.	S. M. Benton	
Bennettsville	Marlboro		2	75.0		92	*21	52	13	33	6.90		2.11		13	9	13	8	SW.	Jno. L. McCall	
Blackville	Barnwell	206	15	76.0	4.1	93	21	51	13	32	7.84	+2.59	2.08		15	10	18	2	SW.	G. D. C. Lange	
Bowman	Orangeburg	160	2	75.5		93	30	53	14	34	9.64		3.27		18	13	17	0	SW.	B. O. Evans.	
Calhoun Falls	Abbeville	508	10								7.77	+3.76	1.86		12	21	5	4	SW.	P. J. Pfedter.	
Canden	Kershaw	222	37								0.55	+5.46	2.70		10	13	5	12	SW.	H. G. Garrison	
Charleston	Charleston	48	34	76.7	2.4	91	24	60	13	22	4.04	-1.01	0.88		17	2	26	2	SW.	Weather Bureau.	
Charlotte, N. C.	Mecklenburg	808	25	71.8	-4.0	90	30	49	13	25	5.34	+0.75	1.51		12	12	9	9	SW.	Weather Bureau.	
Cheraw (1)	Chesterfield	144	15	72.8	5.6	89	*20	51	13	27	7.91	+2.82	3.02		14	9	6	15	SW.	W. R. Godfrey	
Cheraw (2)		144	10								7.78	+1.77	3.17		11	11	10	9	SW.	Jno. H. Powe	
Clarks Hill	Edgefield	456	1	74.7		93	21	50	13	31	5.67		1.05		12	9	8	13	SW.	Wm. S. Middleton.	
Clemson College	Oconee	850	12	71.4	5.7	94	20	42	13	35	4.01	-1.75	0.90		11	14	4	11	SW.	Prof. C. C. Newman.	
Columbia	Richland	351	16	74.2	4.8	91	21	53	13	25	9.97	+5.81	3.60		18	11	8	11	SW.	Central Office.	
Conway a.	Horry	25	12	75.0		94	22	52	14	31	4.74	-0.07	1.22		14	7	6	17	W.	P. Quattlebaum.	
+Darlington	Darlington	175	8	74.8		93	30	50	13	33	8.04	+1.80	2.05		16	14	9	7	SW.	E. R. Melver.	
Due West, b.	Abbeville	740	2	73.9		91	21	50	13	26	3.95		1.25		8	20	5	3	SW.	Rev. O. Y. Bonner.	
Edisto	Bamberg	127	10								10.72	+5.36	2.10		17	10	9	11	SW.	J. L. Padgett.	
Edlingham	Florence	106	11								7.60	+2.79	1.30		14	11	7	12	SW.	H. B. McCall.	
Florence	Florence	136	15	75.1	3.9	95	21	53	13	27	5.73	-0.19	1.50		14	9	13	8	SW.	Howell DeBerry.	
Gaffney	Cherokee	893	7	73.8		95	10	48	13	36	6.92	+2.34	3.64		12	12	8	10	SW.	B. F. Camp.	
Georgetown	Georgetown	12	10																SW.	W. T. Turbeville.	
Gilkinsonville	Hampton	50	8	76.2	-3.7	91	21	49	14	32	6.12	+0.81	1.03		17	7	11	12	SW.	Sam P. Salts.	
Greenville	Greenville	989	11	68.2	-5.9	88	21	46	*13	30	9.06	+3.72	3.82		14	14	2	14	SW.	Mrs. S. A. Crittenden	
Greenwood	Greenwood	671	15	74.2	-4.4	93	21	49	*13	26	4.84	+0.71	2.68		8	12	3	15	W.	M. M. Calhoun.	
Heath Springs	Lancaster		2	73.4		94	21	50	*14	32	10.19		2.05		14	11	9	10	W.	J. A. Weaver.	
Kingstree (1)	Williamsburg	54	15	74.8	-3.8	93	24	54	13	30	9.55	+4.51	2.00		13	15	7	8	SW.	W. H. Edwards.	
Kingstree (2)		54	9								9.53	+4.47	1.98		13	16	6	8	SW.	W. H. Matthews.	
Liberty	Pickens	900	9	72.8	-4.4	96	30	45	13	36	4.93	-0.06	2.03		7	14	9	7	SW.	Jno. T. Boggs.	
+Little Mountain	Newberry	711	10	73.8	-5.0	94	21	49	13	29	8.61	+4.14	1.70		14	13	8	9	SW.	John M. Sease, M. D.	
+Longshore	Newberry	530	10	74.0	-3.4	95	21	49	13	33	9.12	+4.95	3.75		14	13	4	13	SW.	W. G. Peterson.	
Lugoff, J.	Kershaw	168	2	72.6		93	30	50	13	35	9.72		2.92		9	10	2	9	SW.	W. J. Burdell, M. D.	
+Pinopolis	Berkeley	54	10	74.5	-0.5	86	21	59	13	26	6.83	-1.00	1.75		17	5	6	20	SW.	E. P. Ravenel.	
St. Georges	Dorchester	109	15	75.6	-2.6	90	26	56	14	26	8.62	+3.14	1.75		13	15	9	6	SW.	W. B. Raysor.	
St. Matthews	Orangeburg	269	15	74.4	-4.6	89	20	55	*13	23	18.25	+12.95	2.80		15	12	8	10	SW.	J. S. Warnamaker.	
St. Stephens	Berkeley	73	11								8.41	+2.10	3.45		12	12	6	12	SW.	C. T. Shuler.	
Saluda d.	Saluda	536	2	73.8		94	21	50	13	32	8.28		3.43		11	14	5	7	SW.	Alvin Etheridge.	
Santuc, b.	Union	512	10	72.0	-4.7	92	*21	46	13	33	6.97	+3.09	2.00		10	9	9	10	SW.	E. W. Jeter.	
Savannah, Ga.	Chatham	71	34	77.0	-2.3	93	21	59	14	26	6.01	-0.60	1.10		17	7	19	4	W.	Weather Bureau.	
Seivern a.	Aiken	482	2	74.8	4.0	95	*23	48	13	37	11.11	+6.94	5.00		11	5	11	13	W.	J. F. Lyles.	
Smiths Mills	Williamsburg	62	8								6.00	-0.17	2.00		15	13	6	11	SW.	H. van Keuren.	
Society Hill	Darlington	192	12	74.0	-3.2	90	29	54	12	24	8.58	+3.00	1.31		14	15	7	8	SW.	J. J. Lucas.	
Spartanburg	Spartanburg	875	12	71.5	-6.5	92	21	45	13	29	9.96	+4.97	5.05		13	12	4	14	SW.	F. P. Robinson.	
Stateburg	Sumter	500	23	74.4	-2.7	90	*21	53	13	24	18.42	+12.18	3.38		19	10	5	15	SW.	W. W. Anderson, M. D.	
Summerville	Dorchester	75	6	74.5	2.2	89	21	53	13	25	7.37	-0.50	2.05		22	11	18	1	SW.	Miss L. R. Gadsden.	
Sumter	Sumter	169	2	75.8		94	30	51	13	34	14.33		2.76		19	7	15	8	SW.	F. Prescott Bullock.	
Temperance c.	Marion	100	5	74.9	-2.8	94	17	53	14	37	6.52	+1.38	2.65		9	9	14	7	SW.	J. R. Reeves.	
+Trenton	Edgefield	620	10	75.4	-4.1	93	*20	59	15	28	6.12	+1.80	1.60		14	11	17	2	SW.	C. A. Long.	
+Trial	Berkeley	85	17	72.8	-4.0	90	25	50	14	32	5.47	-0.46	1.47		15	9	13	8	W.	Etsell Gaillard.	
Walhalla	Oconee	1061	13	70.5	-4.8	90	*21	44	13	33	7.14		1.10		19	7	18	5	W.	J. D. Isbell.	
Walterboro				75.4		91	21	52	14	33	7.14		1.10		19	7	18	5	SW.	J. A. Westerberg.	
Wilmington, N. C.	New Hanover	52	34	74.2	-2.5	89	21	55	13	22	8.63	+2.93	3.93		14	6	12	12	SW.	Weather Bureau.	
Winnsboro	Fairfield	545	14	74.0	-2.5	93	21	51	2	28	10.17	-6.02	3.70		14	8	17	5	SW.	John W. Seigler.	
Winthrop College	York	690	4	72.4	-4.4	90	30	48	13	29	6.02	+2.35	1.99		14	12	14	4	SW.	Geo. B. Green.	
Yemassee	Beaufort	23	8	76.1	-5.0	91	21	55	14	27	10.86	+5.27	2.30		19	13	9	8	SW.	J. G. Hutson.	
+Yorkville	York	680	15	74.2	-2.9	95	*21	50	13	29	5.96	+0.97	2.53		13	5	14	11	SW.	J. R. Schorb.	
MEANS—highest, lowest and dates, etc.				74.2	-3.7	96	*21	42	13	39	8.09	+3.23	5.05		14	11	10	9	SW.		

|| Maximum thermometer not standard.      + Minimum thermometer not standard.      § Exposed not standard.      \* On other dates also.  
a indicates 1 day missing, b, 2 days, etc.



a indicates 1 day missing. b 2 days, etc.

[illegible]



# TOTAL PRECIPITATION FOR JUNE, 1901.



Scale of shades, in inches.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JUNE, 1903.

STATIONS.	Day of Month.																															Total.			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Aiken																																	8.14		
Allendale		.23						.13		.67	T.	.97								.08		2.06			.15					2.00	1.75	.10		7.16	
Anderson	1.22	.55		.08	1.86	1.12			T.		.60								T.	T.			.01	.77			T.	.17	1.16	.40			5.35		
Augusta, Ga.	.43	.36		.11	.80	.08			.32	T.	1.07												1.85			.80	.20	.53	.40	.47			9.58		
Barksdale	1.80	.60			2.75	1.23				.20	.15													1.12				1.03	.45	.15	.75	.03		8.63	
Batesburg	1.35				1.10	1.00	.92			.33		.40								1.02	.93		.06	.06				.20	.85	.10	.02		6.89		
Beaufort	T.	.12		1.32	.03	.82	.47	T.	T.	.43	.05	.52							T.				.06	.06	T.	.04	.05	.11	T.	.35			6.99		
Bennettsville	.43				1.05	.64	T.		2.41	.39	.10	.09							.79	.09		.14	.40				.87	.42	.27	.09			7.84		
Blackville		.14	.03		.93	.43	.31			.19		.42								.02	2.08	.25	1.39				.18	.80	.15	.18	T.		9.64		
Bowman		.98	.40	.04	.03	.38			.08	.02	.05	.04								3.12	.15	T.	.65	1.07					.49	.56			7.77		
Calhoun Falls	1.86	.44	.34	.97	.80	.22				.70	.61											.52	.22						.20	.23			9.55		
Camden		.65	1.53		1.00	.55	2.70			1.25		.73											.71						.20	.23			4.64		
Charleston		.18	.74	.02	.01	.02	.37	.15		.56	.19	.30								.83	.05	T.	.19	.11				T.	.36	.25	.31	T.		5.34	
Charlotte, N. C.	T.	.51	.07	.10	.59	1.51				.06											1.11	.02	.93	.38				.01	.15	.88		.46		7.91	
Cheraw(1)		.25	.05		.08	.92	1.16			3.02		.08								.08			.12	.65				.06	.12	.70		.48		7.78	
Cheraw(2)		.24	.08		.08	1.06	1.10	T.		3.17		.08								.09		T.	.09					T.	.36	.04	.52			5.67	
Clark's Hill	.09	.86		.12	1.05	.61				.43	.53	.73											.36					.08	.09	.10			4.01		
Clemson College	.90	.54		.17	.50	.82	.39			.05	.37												T.					.08	.11	.03	.29			9.97	
Columbia	.82	2.30	.12	.41	.22	2.33	1.27			.33	.06	.89	.01							T.		.30		.39	.01			.06	.08	.58	1.22	.22	.10		4.74
Conway		.05		.03		.25	.37	.12				.60								.75				.39	.06				.08	.58	1.22	.22	.10		8.04
Darlington		.43		.30		.05	.69	.03			.34	2.05	.65	.10								.40		.65					.17	.56		.61	.38	3.95	
Due West				.12	1.25	.21						.85								.04	.60	.27	1.40	1.10					.50	.40			10.77		
Edisto		2.10	.85	.15	.55	1.30	1.40	.40			.28		1.05								.60	.27	1.40	1.10					.50	.40			7.60		
Effingham		.40	.20	.20	1.30	.40	.80	.90			.40	.15	.75							1.05	.70				.20	.15				.24	.30			5.73	
Florence		.30	.45		.03	.10	1.50	.20			.50	.03	.65							1.30			.09		.04					.04	.20	.16		6.92	
Gaffney		.10	.82	.09	.94	3.64	.10	.09																											
Georgetown																																			
Gillisonville	.02			.35	.09	.05	T.			.19	.09	.45									.93	.92		T.	.06	.28	.74	.02	.39	.46	1.03	.07		6.12	
Greenville	.27	.80	.08		1.15	3.82	.73				.38	.09																	.28	.10	.68	.08		9.06	
Greenwood		2.68			.50	.45					.25	.11	.30																.30	.25			4.84		
Heath Springs	.80	1.10	.01	1.50	.60	1.44				1.20	T.	.10																	.50	.10	.03	.54		10.19	
Kingstree(1)		.21	.08		.88	.12	1.16	.27			.47		.89								.45				1.55				.57	2.00	.90			9.55	
Kingstree(2)		.21	.06		.90	.11	1.17	.25			.46		.87								.43				1.60				.58	1.98	.91	T.		9.53	
Liberty	1.20	T.		.25	.55	2.03				T.	T.	.60																	T.	.25	.05			4.93	
Little Mountain	1.20	.74		.43	1.05	1.70				1.30	.12	.33	.01												.88				.12	.35	.13	.25		8.61	
Longshore	3.76	.03		.38	.62	1.88				.55	.23	.51												.01	.46				.24	.15	.01	.30		9.12	
Lugoff		.94	1.94	.80	.46	1.30	.10			2.92	T.	1.24	.02																					9.74	
Pinopolis		1.75		.12	.10	.50	.02			.23		.12								.05	.31													6.83	
St. Georges		.40	.25		1.75	.60	.40					.40																						8.62	
St. Matthews		2.00	2.80		.65	2.45	.11			.25		1.10																						18.25	
St. Stephens		.48	.45		1.28	.07	.20					1.30									1.45				.50					.85	1.30	.30	.23		8.41
Saluda	.32	1.22		.06	3.43	.54	.47																						.28	.09	.30	T.		8.28	
Santuc		1.15		.73	.87	.90	.01			.10		2.00																		.56	T.	.19		6.97	
Savannah, Ga.	T.	.01		1.00	.02	.21	T.	1.10			.40	T.	.99								.72	.14		T.	.30	.09	.09	.27	.37	.28	.01	.01	T.	6.01	
Savannah	5.00				.83	.19				.68	.02	1.19																		.20	.18	.25	.30		6.09
Smiths Mills		.10			.18					1.20	.20	.10	.30																	.87	.65		.35		8.58
Smiths Hill	.57				1.08	1.14				1.31	.38	.32																							9.96
Stantanburg	T.	.90	.07		.35	5.05	.62				.30	.40																		.31	.03	.93	T.		18.42
Stateburg	2.20	2.52	.53	.24	.23	2.18	.77			.79	.64	3.38																	.18	.15	.04	1.20		7.37	
Summerville	.58	.20	.01	.28	.06	.51	.01				.19	2.05	.01	.01							.33	.01	.16	.04	.82	.01			.07	.33	.80	.89		T.	7.37
Sumter		1.44	1.08		.42	.24	2.76	.34	.80		.48	1.64	.65	.07								.43			.10	1.17				.86	.13	.14	1.55	.03	14.33
Temperance	T.			T.	.83	.20	.04					T.	.50								.60								2.65	1.36	T.	.24		6.52	
Trenton	.19	1.60		.08	1.59	.35					.21	.26	.30								.04			.06					.10	.16	.30	.88		6.12	
Trial	T.	1.03		.30	.08	.49	T.				.41	.02	.37	T.							.08	.02		.38	.26				.81	.66	.12	.44		5.47	
Walhalla																																			



67.05  
2/18/30

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1903.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1903.



1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 2170. 2171. 2172. 2173. 2174. 2175. 2176. 2177. 2178. 2179. 2180. 2181. 2182. 2183. 2184. 2185. 2186. 2187. 2188. 2189. 2190. 2191. 2192. 2193. 2194. 2195. 2196. 2197. 2198. 2199. 2200. 2201. 2202. 2203. 2204. 2205. 2206. 2207. 2208. 2209. 2210. 2211. 2212. 2213. 2214. 2215. 2216. 2217. 2218. 2219. 2220. 2221. 2222. 2223. 2224. 2225. 2226. 2227. 2228. 2229. 2230. 2231. 2232. 2233. 2234. 2235. 2236. 2237. 2238. 2239. 2240. 2241. 2242. 2243. 2244. 2245. 2246. 2247. 2248. 2249. 2250. 2251. 2252. 2253. 2254. 2255. 2256. 2257. 2258. 2259. 2260. 2261. 2262. 2263. 2264. 2265. 2266. 2267. 2268. 2269. 2270. 2271. 2272. 2273. 2274. 2275. 2276. 2277. 2278. 2279. 2280. 2281. 2282. 2283. 2284. 2285. 2286. 2287. 2288. 2289. 2290. 2291. 2292. 2293. 2294. 2295. 2296. 2297. 2298. 2299. 2300. 2301. 2302. 2303. 2304. 2305. 2306. 2307. 2308. 2309. 2310. 2311. 2312. 2313. 2314. 2315. 2316. 2317. 2318. 2319. 2320. 2321. 2322. 2323. 2324. 2325. 2326. 2327. 2328. 2329. 2330. 2331. 2332. 2333. 2334. 2335. 2336. 2337. 2338. 2339. 2340. 2341. 2342. 2343. 2344. 2345. 2346. 2347. 2348. 2349. 2350. 2351. 2352. 2353. 2354. 2355. 2356. 2357. 2358. 2359. 2360. 2361. 2362. 2363. 2364. 2365. 2366. 2367. 2368. 2369. 2370. 2371. 2372. 2373. 2374. 2375. 2376. 2377. 2378. 2379. 2380. 2381. 2382. 2383. 2384. 2385. 2386. 2387. 2388. 2389. 2390. 2391. 2392. 2393. 2394. 2395. 2396. 2397. 2398. 2399. 2400. 2401. 2402. 2403. 2404. 2405. 2406. 2407. 2408. 2409. 2410. 2411. 2412. 2413. 2414. 2415. 2416. 2417. 2418. 2419. 2420. 2421. 2422. 2423. 2424. 2425. 2426. 2427. 2428. 2429. 2430. 2431. 2432. 2433. 2434. 2435. 2436. 2437. 2438. 2439. 2440. 2441. 2442. 2443. 2444. 2445. 2446. 2447. 2448. 2449. 2450. 2451. 2452. 2453. 2454. 2455. 2456. 2457. 2458. 2459. 2460. 2461. 2462. 2463. 2464. 2465. 2466. 2467. 2468. 2469. 2470. 2471. 2472. 2473. 2474. 2475. 2476. 2477. 2478. 2479. 2480. 2481. 2482. 2483. 2484. 2485. 2486. 2487. 2488. 2489. 2490. 2491. 2492. 2493. 2494. 2495. 2496. 2497. 2498. 2499. 2500. 2501. 2502. 2503. 2504. 2505. 2506. 2507. 2508. 2509. 2510. 2511. 2512. 2513. 2514. 2515. 2516. 2517. 2518. 2519. 2520. 2521. 2522. 2523. 2524. 2525. 2526. 2527. 2528. 2529. 2530. 2531. 2532. 2533. 2534. 2535. 2536. 2537. 2538. 2539. 2540. 2541. 2542. 2543. 2544. 2545. 2546. 2547. 2548. 2549. 2550. 2551. 2552. 2553. 2554. 2555. 2556. 2557. 2558. 2559. 2560. 2561. 2562. 2563. 2564. 2565. 2566. 2567. 2568. 2569. 2570. 2571. 2572. 25





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

Barometer and Wind Table for July, 1903.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND            |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....     | 30.01      | 30.21    | 26    | 29.86   | 13    | 4,193           | 5.5             | 36                | SW.        | 12    |
| Charleston. ....      | 30.03      | 30.21    | 26    | 29.87   | 13    | 6,946           | 9.3             | 36                | NE.        | 5     |
| Charlotte, N. C. .... | 30.01      | 30.20    | 25    | 29.82   | 18    | 4,639           | 6.2             | 25                | SW.        | 30    |
| Columbia. ....        | 30.01      | 30.23    | 26    | 29.87   | 19    | 5,125           | 7.0             | 36                | SW.        | 12    |
| Savannah, Ga. ....    | 30.04      | 30.20    | 26    | 29.84   | 13    | 5,069           | 6.8             | 27                | E.         | 22    |
| Wilmington, N. C. ... | 29.99      | 30.18    | 26    | 29.83   | 19    | 5,928           | 8.0             | 31                | SW.        | 13    |
| Averages. ....        | 30.02      | 30.23    | 26    | 29.82   | 18    | 5,302           | 7.3             | 36                | SW.        | 12    |

## NOTES.

The first cotton bloom was noted at Barksdale on the 5th. The first katy-did was heard at Saluda on the 4th.

The month was characterized by an unusual uniformity of mean temperature over the entire State.

On September 1st, the Central Office will be moved from the City Hall to the new Loan and Exchange Bank building, with the quarters on the eleventh floor, about 130 feet from the ground, while the instruments on the roof will be about 150 feet above the ground.

Erratum.—June, 1903, monthly report, on pages 5 and 8, the total precipitation at Edisto, 10.77; should be 12.77.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for July, 1903, was 80.4°, which is 0.3° above normal. The highest local mean was 82.3° at Greenwood; the lowest 76.2° at Greenville. The highest maximum was 103° at Florence and Gaffney on the 27th; the lowest minimum was 45° at Walhalla on the 16th, making the monthly range 58°. The greatest local monthly range was 51° at Walhalla, the least was 25° Charleston. The mean of the daily maximum temperatures was 90.7°, of the daily minimum temperatures 70.0°.

## Precipitation, in Inches.

The precipitation averaged 3.59 inches, which is 1.99 below normal. The greatest local monthly amount was 8.54 at Gillisonville, the least 0.95 at Winthrop College. The greatest 24-hourly fall was 3.47 at Gillisonville on the 9th. The average number of days with rain was 8, ranging from 4 at Cheraw, Clemson College, Greenwood, Winnsboro and Yorkville to 13 at Edisto and Summerville.

Excessive Precipitation.—Allendale, 8-9th, 3.40 in 18 hrs. 20 mins.; Gillisonville, 9th, 3.74 in 9 hrs. 45 mins., 24th, 1.30 in 45 mins.; St. Matthews, 10th, 2.75 in 1 hr.; Smiths Mills, 7th, 2.60 in 24 hrs.

Hail.—Longshore, 22nd.

VOL. VI.

COLUMBIA, S. C., JULY, 1903.

No. 7.

## PROGRESS OF FARMWORK.

The temperature during July never varied widely from the normal, although maxima of 100° or over were recorded at a number of stations during the last decade. The even warmth was favorable on crops during the greater part of the month, but the excessive heat during the last week, in connection with a condition of unusually low relative humidity of the air and general absence of rain, was detrimental to vegetation of every kind, by reason of wilting during the daytime and even on some nights. This damaging condition was most severe on corn in the silking and tasseling stages, and where planted on low-lying and sandy lands that had received excessive precipitation during the preceding June and the early part of July. On such lands corn "fired" and withered to the tops, with the ears shrunk and only partly filled with grain. Cotton suffered, on the above described lands, from shedding and to a slight extent from rust, and gave signs of early maturity, and stopped blooming before it had become fruited with even a moderate crop of bolls.

Young corn on the western counties' bottom lands, and all well cultivated cotton on high lands, and on clayey soils, and on sandy lands that were not leached by excessive precipitation in June, improved steadily throughout the month, although the growth of cotton was checked noticeably during the last decade, but it continued to bloom and fruit satisfactorily, with very little shedding of squares or young bolls.

Tobacco curing progressed favorably as the leaves ripened, and was nearly finished in the eastern districts, but was only well under way in the central ones by the end of the month.

Rice did not make satisfactory growth, and became less promising as the month advanced. Of the minor crops, sweet potatoes became the most promising, and early ones were marketed during the month. The commercial crop of peaches was hurt by the wetness of June and early part of the present month, and rotted largely as it ripened. In parts of the State, other fruits were plentiful. Much hay was saved in prime condition. Preparations were begun for fall and winter truck crops.



Weather.—The average number of clear days was 18, of partly cloudy 9, and of cloudy 4.

Winds.—The prevailing direction of the wind was from the southwest at 27 stations, from the west at 12, from the south at 6, from the southeast and northwest at 2 each, and from the north at 1.

High Winds.—Charleston, 5th; Columbia, Spartanburg, 12th; Greenville, 29th; Lugoff, 22nd, 31st; Trial, 6th, 13th.

#### MISCELLANEOUS PHENOMENA (with dates).

Lunar Corona.—Lugoff, 4; Santuc, 8, 9.

Lunar Halos.—Beaufort, 28; Charleston, 4, 5, 8, 31; Gillisonville, 4, 5, 7, 8; Little Mountain, 3.

Solar Halos.—Charleston, 8, 12, 17, 18; Gillisonville, 31.

Dense Fog.—Beaufort, 26; Blackville, 29; Liberty, 11; Lugoff, 6; Saluda, 1.

Thunderstorms.—Allendale, 5, 6, 7, 8, 9, 12, 13, 19, 23, 25, 30, 31; Beaufort, 1, 3, 5, 6, 7, 8, 9, 10, 12, 13, 22, 23, 30, 31; Blackville, 2, 5, 6, 11, 12, 19, 30, 31; Bowman, 5, 6, 8, 9, 10, 11, 13, 30, 31; Cheraw, 2, 3, 5, 6, 12, 13, 22; Florence, 5, 7, 28; Greenville, 29; Liberty, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 28, 29, 30, 31; Little Mountain, 5, 6, 13, 19, 22; Longshore, 1, 2, 5, 12, 13; Lugoff, 5, 22, 28, 30, 31; Santuc, 5, 12, 13, 19, 30; Society Hill, 2, 5, 6, 13; Spartanburg, 11; Stateburg, 2, 5, 6, 13, 19, 28, 29, 30, 31; Summerville, 5, 6, 9, 31; Sumter, 7, 10, 12, 13, 14, 20, 28, 31; Trenton, 2, 5, 6, 7, 12, 13, 23, 28, 30, 31; Trial, 5; Winthrop College, 5, 30; Yorkville, 5, 6.

Arranged by dates, it is found that 130 thunderstorms were reported, and they occurred on 23 dates, as follows: 1st, 2; 2nd, 7; 3rd, 3; 4th, 1; 5th, 18; 6th, 12; 7th, 6; 8th, 3; 9th, 5; 10th, 4; 11th, 4; 12th, 9; 13th, 12; 14th, 1; 19th, 4; 20th, 1; 22nd, 5; 23rd, 3; 25th, 1; 28th, 6; 29th, 3; 30th, 10; 31st, 10.

In addition to the above, Charleston had thunderstorms on the 5, 6, 9, 11, 12, 13, 18, 21, 22, 23, 31; Columbia, 2, 5, 6, 7, 22, 23, 31.

#### REMARKS BY OBSERVERS.

Allendale.—The month was warm, with favorable weather for farmwork. On low lying lands cotton began to rust, but looks well on higher lands. Corn is a fairly good crop. Minor crops promising.—R. D. Peeples.

Anderson.—The rainfall was not well distributed; some places had sufficient amount and in such places crops are doing well.—R. B. Dean.

Barksdale.—Cotton looks fine, and, if it holds its fruit, will make a full crop. Corn improved in color during the month.—E. V. Garrett.

Batesburg.—The absence of rain during the last half of the month caused cotton to shed and corn to "fire". Sweet potatoes look fine.—E. J. Hite.

Beaufort.—Mean temperature was 1.1° below, and precip-

itation 2.28 inches below normal. Under favorable conditions, corn and cotton improved greatly, but much cotton remains small and very poor, especially on low lands. Corn was practically ripe at the close of the month.—S. M. Benton.

Bennettsville.—Cotton did well throughout the month, but the last ten days of hot weather hurt corn considerably. A large crop of hay indicated. Fruit, except peaches, plentiful.—Jno. A. McCall.

Blackville.—Monthly mean temperature 0.1° above normal, precipitation 3.96 inches below.—G. D. C. Lange.

Bowman.—Excessive rains during first half were followed by two weeks of drought that seriously injured crops, especially cotton, that had to be cultivated extensively to rid it of grass.—B. O. Evans.

Clarks Hill.—First part of month was similar to the preceding June, having been cloudy, rainy and with high relative humidity that caused peaches in commercial orchards to rot badly.—Wm. S. Middleton.

Gillisonville.—The month was disagreeable, and the rains and hot weather had a scalding effect that damaged all crops especially cotton on low lands. Corn suffered severely. At the close of the month, cotton looks sickly and is failing. Corn practically ripe.—Sam P. Saltus.

Heath Springs.—The month's weather was hot and dry, causing crops to burn and pastures to fail. Young corn looks well at close.—J. A. Weaner.

Liberty.—Month dry and hot with plenty of sunshine. Crops grew well until the last 10 days when hot winds caused vegetation to wilt badly. The extent of the damage is not yet apparent. There was need of rain at the close of the month.—Jno. T. Boggs.

Little Mountain.—The month was favorable for clearing all crops of grass, as fields had become foul from the excessive rainfall of June. Nearly all crops were laid by in fine condition.—Jno. M. Sease, M. D.

Lugoff.—The month was very dry. Corn suffered for rain. Much hay was saved. Cotton improved steadily.—W. J. Burdell, M. D.

Santuc.—Month very hot; there were 25 days with maximum temperature from 90° to 100°. The latter half noted for its drying winds of moderate velocity.—E. W. Jeter.

Trenton.—Precipitation 4.42 below normal, and is 1.88 inches more than the average for the first seven months of the year.—C. A. Long.



CLIMATOLOGICAL DATA FOR THE MONTH OF JULY, 1903.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                                    |                    | Sky.               |                            |                              |                        | Observations. |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|------------------------------------|--------------------|--------------------|----------------------------|------------------------------|------------------------|---------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total (showing all rain measured). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number of days with no wind. |                        |               |
| Aiken                                 | Aiken        | 565             | 2                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                                    |                    |                    |                            |                              | L. M. Coward.          |               |
| Allendale                             | Barnwell     | 186             | 15                      | 81.2                               | +0.4                       | 98       | *27   | 64      | *20   | 26                       | 7.46   | +1.65                      | 3.40                  |                                    | 25                 | 1                  | 5                          |                              | R. D. Peoples.         |               |
| Anderson                              | Anderson     | 764             | 2                       | 81.0                               | +2.9                       | 99       | 26    | 60      | 15    | 33                       | 2.72   | 2.12                       | 0.90                  |                                    | 6                  | 19                 | 12                         | 0                            | R. B. Dean.            |               |
| Augusta, Ga.                          | Richmond     | 131             | 32                      | 81.0                               | -0.3                       | 97       | 27    | 65      | 15    | 26                       | 2.02   | -3.69                      | 0.75                  |                                    | 11                 | 16                 | 11                         | 4                            | Weather Bureau.        |               |
| Barksdale, d.                         | Laurens      | 780             | 2                       | 79.4                               |                            | 99       | *6    | 60      | 16    | 30                       | 2.14   |                            | 1.00                  |                                    | 6                  | 15                 | 12                         | 4                            | E. V. Garrett.         |               |
| Batesburg                             | Lexington    | 656             | 15                      | 78.7                               | -1.2                       | 97       | *22   | 50      | *15   | 31                       | 3.06   | -3.28                      | 1.03                  |                                    | 7                  | 18                 | 7                          | 6                            | E. J. H. B.            |               |
| Beaufort                              | Beaufort     | 28              | 17                      | 80.9                               | -1.1                       | 98       | 23    | 68      | 16    | 22                       | 3.15   | -2.28                      | 1.76                  |                                    | 10                 | 17                 | 11                         | 3                            | S. M. Benton.          |               |
| Bennettsville                         | Marlboro     |                 | 2                       | 80.9                               |                            | 100      | 27    | 62      | 16    | 31                       | 5.15   |                            | 1.67                  |                                    | 9                  | 19                 | 11                         | 1                            | Jno. L. McCall.        |               |
| Blackville                            | Barnwell     | 296             | 15                      | 81.4                               | +0.1                       | 101      | 26    | 62      | *15   | 32                       | 1.77   | -3.96                      | 0.57                  |                                    | 8                  | 13                 | 17                         | 1                            | G. D. C. Lange.        |               |
| Bowman                                | Orangeburg   | 160             | 2                       | 81.5                               |                            | 99       | 27    | 64      | 15    | 29                       | 8.09   |                            | 2.40                  |                                    | 9                  | 20                 | 9                          | 2                            | B. O. Evans.           |               |
| Calhoun Falls                         | Abbeville    | 508             | 10                      |                                    |                            |          |       |         |       |                          | 3.61   | -0.94                      | 1.30                  |                                    | 7                  | 22                 | 0                          | 9                            | P. J. Pfeiffer.        |               |
| Camden                                | Kershaw      | 222             | 37                      |                                    |                            |          |       |         |       |                          | 3.46   | -1.58                      | 2.13                  |                                    | 7                  | 21                 | 3                          | 7                            | H. G. Carrison.        |               |
| Charleston                            | Charleston   | 48              | 34                      | 81.2                               | -0.8                       | 95       | 19    | 70      | 14    | 20                       | 3.23   | -4.19                      | 1.75                  |                                    | 9                  | 8                  | 20                         | 3                            | Weather Bureau.        |               |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 25                      | 79.7                               | +1.1                       | 96       | 27    | 61      | 26    | 26                       | 1.80   | -3.13                      | 1.04                  |                                    | 6                  | 13                 | 15                         | 3                            | Weather Bureau.        |               |
| Cheraw (1)                            | Chesterfield | 144             | 15                      | 79.4                               | -1.1                       | 96       | 27    | 63      | 15    | 26                       | 3.72   | -2.83                      | 1.61                  |                                    | 4                  | 11                 | 11                         | 9                            | W. R. Godfrey.         |               |
| Cheraw (2)                            |              | 144             | 10                      |                                    |                            |          |       |         |       |                          | 3.97   | -2.45                      | 1.50                  |                                    | 8                  | 23                 | 5                          | 3                            | Jno. H. Powe.          |               |
| Clarks Hill                           | Edgefield    | 456             | 1                       | 81.2                               |                            | 100      | 27    | 64      | *11   | 30                       | 2.64   |                            | 0.86                  |                                    | 6                  | 10                 | 12                         | 9                            | Wm. S. Middleton.      |               |
| Clemson College                       | Oconee       | 850             | 12                      | 79.4                               | +0.4                       | 98       | *25   | 56      | 15    | 34                       | 2.26   | -2.95                      | 1.58                  |                                    | 4                  | 15                 | 14                         | 2                            | Prof. C. C. Newman.    |               |
| Columbia                              | Richland     | 351             | 16                      | 80.8                               | +0.2                       | 98       | 27    | 64      | 15    | 28                       | 2.94   | -3.12                      | 0.84                  |                                    | 11                 | 14                 | 13                         | 4                            | Central Office.        |               |
| Conway                                | Horry        | 25              | 12                      | 80.2                               |                            | 98       | 27    | 59      | 19    | 30                       | 2.25   | -4.60                      | 0.70                  |                                    | 8                  | 16                 | 7                          | 8                            | P. Quattlebaum.        |               |
| +Darlington                           | Darlington   | 175             | 8                       | 81.2                               |                            | 101      | 27    | 61      | 15    | 34                       | 4.18   | -1.26                      | 1.66                  |                                    | 6                  | 21                 | 7                          | 3                            | E. R. McIver.          |               |
| Due West, d.                          | Abbeville    | 740             | 2                       | 80.0                               |                            | 94       | *5    | 62      | 28    | 32                       | 3.14   |                            | 1.28                  |                                    | 7                  | 17                 | 8                          | 2                            | Rev. O. Y. Bonner.     |               |
| Edisto                                | Barnburg     | 127             | 10                      |                                    |                            |          |       |         |       |                          | 6.05   | +1.07                      | 1.60                  |                                    | 13                 | 18                 | 7                          | 6                            | J. L. Padgett.         |               |
| Elmham                                | Florence     | 106             | 11                      |                                    |                            |          |       |         |       |                          | 3.41   | -1.23                      | 1.50                  |                                    | 6                  | 23                 | 3                          | 5                            | W. H. McCall.          |               |
| Florence                              | Florence     | 136             | 15                      | 81.8                               | +0.5                       | 103      | 27    | 62      | 16    | 34                       | 5.27   | -0.09                      | 1.84                  |                                    | 7                  | 22                 | 3                          | 6                            | Howell DeBerry.        |               |
| Gaffney                               | Cherokee     | 893             | 7                       | 81.8                               |                            | 103      | 27    | 58      | *16   | 34                       | 1.47   | -2.99                      | 0.75                  |                                    | 7                  | 21                 | 4                          | 6                            | B. F. Camp.            |               |
| Georgetown                            | Georgetown   | 12              | 10                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                                    |                    |                    |                            |                              | W. T. Turbeville.      |               |
| Gillisonville                         | Hampton      | 50              | 8                       | 79.9                               | -1.5                       | 96       | 23    | 62      | 16    | 28                       | 8.54   | +3.14                      | 3.47                  |                                    | 11                 | 16                 | 7                          | 8                            | Sam P. Saltus.         |               |
| Greenville                            | Greenville   | 989             | 11                      | 76.2                               | -0.2                       | 93       | 26    | 58      | *14   | 29                       | 4.04   | -1.65                      | 1.30                  |                                    | 8                  | 23                 | 3                          | 5                            | Mrs. S. A. Crittenden. |               |
| Greenwood                             | Greenwood    | 671             | 15                      | 82.3                               | +2.3                       | 98       | *5    | 64      | 16    | 25                       | 1.70   | -3.22                      | 0.60                  |                                    | 4                  | 20                 | 2                          | 9                            | M. M. Calhoun.         |               |
| Heath Springs                         | Lancaster    |                 | 2                       | 80.3                               |                            | 100      | *27   | 61      | 14    | 32                       | 1.82   |                            | 1.28                  |                                    | 6                  | 20                 | 9                          | 2                            | J. A. Weaner.          |               |
| Kingstree (1)                         | Williamsburg | 54              | 15                      | 79.8                               | -0.8                       | 96       | *18   | 63      | 15    | 27                       | 2.94   | -2.79                      | 1.12                  |                                    | 11                 | 19                 | 9                          | 3                            | W. H. Edwards.         |               |
| Kingstree (2)                         |              | 54              | 9                       |                                    |                            |          |       |         |       |                          | 2.92   | -2.82                      | 1.09                  |                                    | 11                 | 20                 | 8                          | 3                            | W. H. Matthews.        |               |
| Liberty                               | Pickens      | 900             | 9                       | 81.2                               | +2.2                       | 101      | 5     | 58      | 16    | 36                       | 2.33   | -3.36                      | 1.02                  |                                    | 4                  | 19                 | 11                         | 1                            | Jno. T. Boggs.         |               |
| +Little Mountain                      | Newberry     | 711             | 10                      | 80.6                               | +0.1                       | 100      | 27    | 63      | 16    | 29                       | 2.50   | -1.91                      | 1.23                  |                                    | 10                 | 14                 | 15                         | 2                            | John M. Sease, M. D.   |               |
| +Longshore                            | Newberry     | 530             | 10                      | 81.0                               | +1.4                       | 101      | 27    | 61      | 15    | 32                       | 3.44   | -2.54                      | 1.45                  |                                    | 8                  | 15                 | 13                         | 3                            | W. G. Peterson.        |               |
| Lugoff                                | Kershaw      | 168             | 2                       | 81.4                               |                            | 102      | 27    | 60      | 15    | 34                       | 1.88   |                            | 1.09                  |                                    | 8                  | 19                 | 10                         | 2                            | W. J. Burdell, M. D.   |               |
| Pinopolis                             | Berkeley     | 54              | 10                      | 78.2                               | -0.5                       |          |       |         |       |                          | 4.43   | -1.32                      | 1.16                  |                                    | 12                 | 9                  | 18                         | 4                            | E. P. Ravenel.         |               |
| St. Georges                           | Dorchester   | 109             | 15                      | 80.2                               | -0.2                       | 96       | 27    | 65      | 26    | 25                       | 3.74   | -2.30                      | 1.10                  |                                    | 8                  | 22                 | 5                          | 4                            | W. B. Rayson.          |               |
| St. Matthews                          | Orangeburg   | 269             | 15                      | 80.0                               | -0.4                       | 94       | *5    | 66      | 15    | 22                       | 8.07   | +1.49                      | 2.75                  |                                    | 10                 | 20                 | 7                          | 4                            | J. S. Warramaker.      |               |
| St. Stephens                          | Berkeley     | 73              | 11                      |                                    |                            |          |       |         |       |                          | 4.25   | -1.64                      | 0.96                  |                                    | 7                  | 17                 | 3                          | 11                           | C. T. Shuler.          |               |
| Saluda                                | Saluda       | 536             | 2                       | 81.2                               |                            | 101      | 27    | 61      | 15    | 33                       | 1.64   |                            | 0.38                  |                                    | 11                 | 16                 | 9                          | 6                            | Alvin Etheridge.       |               |
| Santee                                | Union        | 512             | 10                      | 80.1                               | +1.3                       | 100      | 27    | 58      | *15   | 44                       | 2.75   | -2.34                      | 1.09                  |                                    | 8                  | 17                 | 13                         | 1                            | E. W. Jeter.           |               |
| Savannah, Ga.                         | Chatham      | 71              | 34                      | 80.9                               | -1.0                       | 96       | 23    | 70      | 16    | 22                       | 6.54   | +0.63                      | 4.08                  |                                    | 9                  | 13                 | 12                         | 6                            | Weather Bureau.        |               |
| Seivern                               | Aiken        | 482             | 2                       | 80.6                               | +0.7                       | 102      | 29    | 59      | *14   | 34                       | 1.51   | -2.84                      | 0.60                  |                                    | 10                 | 15                 | 10                         | 6                            | J. F. Lyles.           |               |
| Smiths Mills                          | Williamsburg | 62              | 8                       |                                    |                            |          |       |         |       |                          | 6.60   | -0.10                      | 2.60                  |                                    | 6                  | 23                 | 5                          | 3                            | H. van Keuren.         |               |
| Society Hill                          | Darlington   | 192             | 12                      | 80.8                               | +1.9                       | 95       | 19    | 65      | 14    | 23                       | 5.88   | -0.82                      | 2.55                  |                                    | 8                  | 21                 | 6                          | 4                            | J. J. Lucas.           |               |
| Spartanburg                           | Spartanburg  | 875             | 12                      | 80.2                               | +1.0                       | 99       | 27    | 59      | 16    | 29                       | 2.17   | -2.06                      | 1.51                  |                                    | 7                  | 23                 | 4                          | 4                            | F. P. Robinson.        |               |
| Stateburg                             | Sumter       | 500             | 23                      | 80.6                               | +1.8                       | 97       | 27    | 64      | 15    | 25                       | 3.63   | -1.53                      | 1.43                  |                                    | 8                  | 15                 | 7                          | 9                            | W. W. Anderson, M. D.  |               |
| Summerville                           | Dorchester   | 75              | 6                       | 79.0                               | -0.2                       | 95       | 27    | 60      | 14    | 26                       | 3.13   | -2.57                      | 1.02                  |                                    | 13                 | 21                 | 8                          | 2                            | Miss L. R. Gadsden.    |               |
| Sumter                                | Sumter       | 169             | 2                       | 81.8                               |                            | 99       | 47    | 63      | 15    | 34                       | 4.90   |                            | 2.20                  |                                    | 10                 | 17                 | 11                         | 3                            | F. Prescott Bullock.   |               |
| Temperance                            | Marion       | 100             | 5                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                                    |                    |                    |                            |                              | J. R. Reeves.          |               |
| +Trenton                              | Edgefield    | 620             | 10                      | 81.1                               | +0.3                       | 101      | 27    | 65      | *14   | 29                       | 1.81   | -4.42                      | 0.49                  |                                    | 6                  | 11                 | 19                         | 1                            | C. A. Long.            |               |
| Trial                                 | Berkeley     | 85              | 17                      | 78.8                               | +0.1                       | 99       | 27    | 59      | 15    | 30                       | 4.37   | -2.21                      | 2.17                  |                                    | 12                 | 12                 | 12                         | 7                            | Etsell Gaillard.       |               |
| Walhalla                              | Oconee       | 1061            | 13                      | 78.2                               | +1.7                       | 96       | 27    | 45      | 16    | 38                       | 2.41   | -2.89                      | 0.90                  |                                    | 7                  | 21                 | 7                          | 3                            | J. D. Isbell.          |               |
| Walterboro                            |              |                 |                         | 79.8                               |                            | 96       | 23    | 64      | 16    | 27                       | 5.82   |                            | 1.96                  |                                    | 11                 | 17                 | 11                         | 3                            | J. A. Westerberg.      |               |
| Wilmington, N. C.                     | New Hanover  | 52              | 34                      | 80.0                               | 0.0                        | 96       | 27    | 66      | 16    | 24                       | 3.00   | -3.84                      | 1.01                  |                                    | 6                  | 11                 | 20                         | 0                            | Weather Bureau.        |               |
| Winnsboro                             | Fairfield    | 545             | 14                      | 81.2                               | +2.3                       | 100      | 27    | 61      | 15    | 27                       | 2.12   | -2.88                      | 1.00                  |                                    | 4                  | 25                 | 5                          | 1                            | John W. Seigler.       |               |
| Winthrop College                      | York         | 690             | 4                       | 80.8                               | +1.8                       | 99       | 27    | 60      | 16    | 32                       | 0.95   | -4.27                      | 0.56                  |                                    | 6                  | 21                 | 9                          | 1                            | Geo. B. Green.         |               |
| Yemassee                              | Beaufort     | 23              | 8                       | 80.4                               | -2.4                       | 97       | *22   | 61      | 16    | 26                       | 5.68   | -0.13                      | 1.89                  |                                    | 11                 | 17                 | 7                          | 7                            | J. G. Hutson.          |               |
| Yorkville                             | York         | 680             | 15                      | 82.8                               | +3.6                       | 101      | 27    | 62      | *15   | 29                       | 1.23   | -4.20                      | 0.52                  |                                    | 4                  | 10                 | 20                         | 1                            | J. R. Schorb.          |               |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 80.4                               | +0.3                       | 103      | 27    | 45      | 16    | 44                       | 3.59   | -1.99                      | 3.47                  |                                    | 8                  | 18                 | 9                          | 4                            | SW.                    |               |

NOTE.—All records are used in determining State or district means, but State and district departures are determined by comparison of current data of only such stations as have ten or more years.    ‡ Maximum thermometer not standard.    † Minimum thermometer not standard.    § Exposed not standard.  
\* On other dates also.    a indicates 1 day missing, b, 2 days, etc.



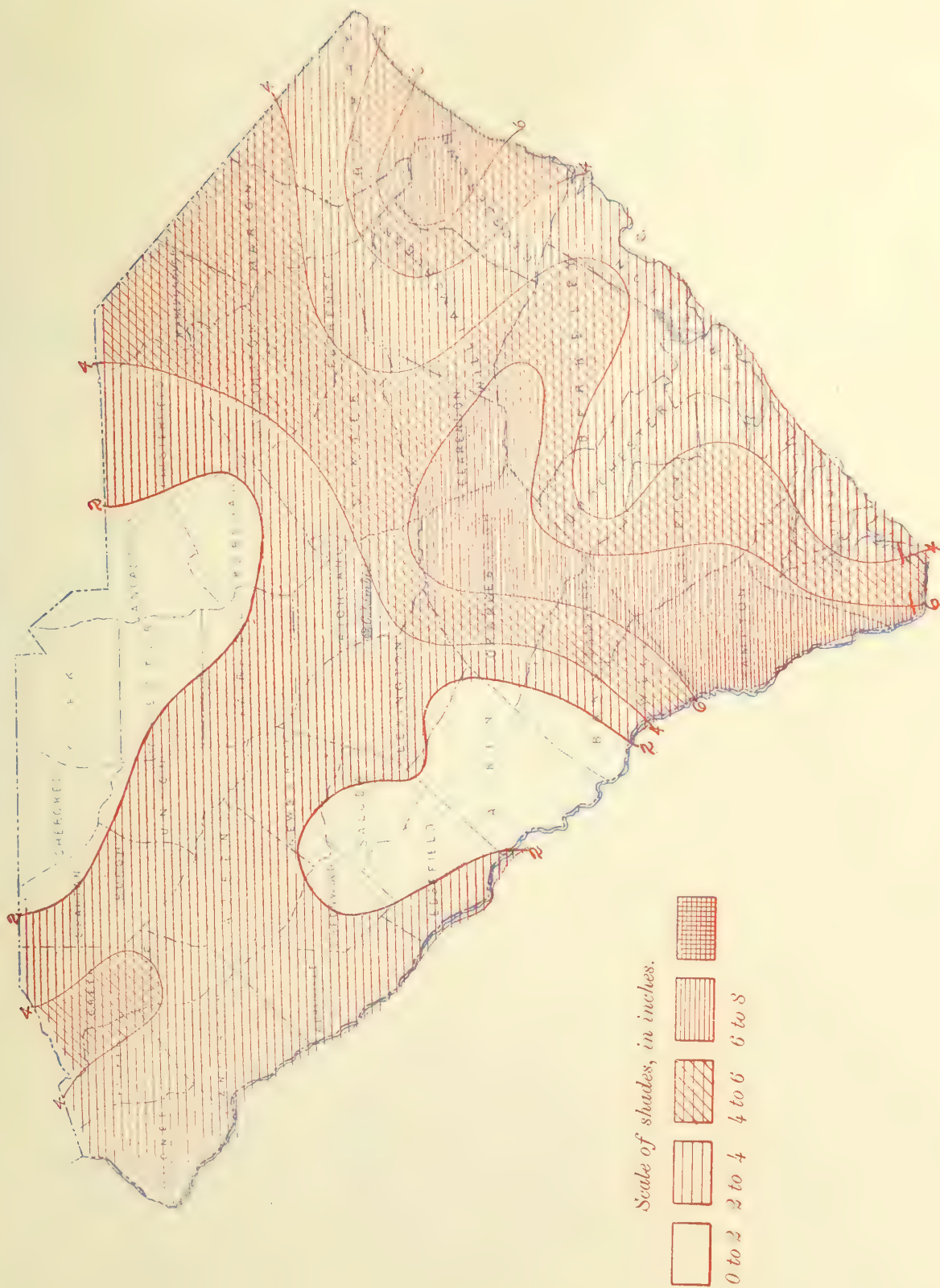
### STATIONS.

a indicates 1 day missing, b 2 days, etc.      \* 100.      \*\* 101.      † 102      § 103.

indicates 1 day missing, b 2 days, etc.



# TOTAL PRECIPITATION FOR JULY, 1903.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JULY, 1903.

| STATIONS.         | Day of Month. |     |     |     |      |      |      |      |      |      |      |      |      |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | Total. |      |      |      |
|-------------------|---------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|----|-----|-----|------|-----|-----|----|----|----|----|-----|----|----|----|----|------|-----|--------|------|------|------|
|                   | 1             | 2   | 3   | 4   | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15 | 16  | 17  | 18   | 19  | 20  | 21 | 22 | 23 | 24 | 25  | 26 | 27 | 28 | 29 | 30   | 31  |        |      |      |      |
| Aiken             |               |     |     |     |      |      |      |      |      |      |      |      |      |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        |      |      |      |
| Allendale         |               |     |     |     | 1.32 | T.   | T.   | 1.18 | 2.22 |      |      | T.   | .94  |      |    |     |     |      | .66 |     |    |    |    |    |     |    |    |    |    | .92  |     | 7.46   |      |      |      |
| Anderson          |               |     |     |     | .12  | T.   | .35  |      | T.   |      |      | .53  | .70  |      |    |     | .70 | .12  |     |     |    |    |    |    |     |    |    |    |    | .90  |     | 2.72   |      |      |      |
| Augusta, Ga.      |               |     | .01 | .01 | .22  | .12  | .24  |      | T.   | .02  | .04  | .75  |      |      |    |     |     | .01  | T.  |     |    |    |    |    | .35 |    |    |    |    |      | .25 | 2.02   |      |      |      |
| Barksdale         |               |     |     |     | .57  | .07  |      |      |      |      |      | .09  | 1.00 |      |    |     |     | .01  |     |     |    |    |    |    |     |    |    |    |    | .40  |     | 2.14   |      |      |      |
| Batesburg         |               |     |     |     | T.   |      |      |      |      |      |      |      | .20  | 1.03 |    |     | T.  |      |     |     |    |    |    |    |     |    |    |    |    |      |     | 3.06   |      |      |      |
| Beaufort          |               |     |     |     | T.   |      |      |      |      |      |      | .29  | .29  | .06  |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .34    | 3.45 |      |      |
| Bennettsville     |               |     |     |     | 1.46 |      | 1.00 |      |      |      |      | T.   | 1.67 | .15  |    |     |     | .12  |     |     |    |    |    |    |     |    |    |    |    | .19  | .03 | .03    | 5.15 |      |      |
| Blackville        |               |     |     |     | .30  |      | .58  |      |      | .12  |      | .08  | .17  | .24  |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .13    | 1.77 |      |      |
| Bowman            |               |     |     |     | .44  | 1.28 | T.   | T.   | 1.80 | 2.40 | .45  | T.   | .43  |      |    |     |     | .04  |     |     |    |    |    |    |     |    |    |    |    | 1.03 | .22 | 8.09   |      |      |      |
| Calhoun Falls     |               |     |     |     | .22  | 1.30 |      | .18  |      |      |      | T.   | .98  | .63  |    |     | .22 |      |     |     |    |    |    |    |     |    |    |    |    |      | .08 | 3.61   |      |      |      |
| Camden            |               |     | .50 |     | .02  | .16  |      |      | T.   | T.   |      |      | 2.13 |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .15    | 3.46 |      |      |
| Charleston        |               |     |     |     | .70  |      | .09  | .02  | .14  | .01  |      | T.   | .15  | 1.75 |    |     | T.  | T.   |     |     |    |    |    |    |     |    |    |    |    |      |     | .14    | 3.23 |      |      |
| Charlotte, N. C   |               |     |     |     | .40  | T.   | .42  | .01  |      |      |      | .01  | 1.01 |      |    |     | .01 | T.   |     | T.  |    |    |    |    |     |    |    |    |    |      |     | T.     | 1.89 |      |      |
| Cheraw(1)         |               |     |     |     | T.   | T.   | .94  | .03  | .85  | .06  |      |      | .49  | 1.50 |    |     | .07 |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .03    | 3.97 |      |      |
| Cheraw(2)         |               |     |     |     | 1.08 | T.   | .71  | .10  |      | .02  | .20  | 1.61 |      |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | T.     | 3.72 |      |      |
| Clark's Hill      | T.            | T.  |     |     |      | .86  | .78  |      |      | T.   | T.   | .04  | .66  |      |    |     |     | T.   |     |     |    |    |    |    |     |    |    |    |    |      | .26 | .04    | 2.64 |      |      |
| Clemson College   | T.            |     |     | .32 |      |      |      |      | 1.58 |      |      | .32  |      |      |    | T.  |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | T.     | .26  |      |      |
| Columbia          |               | .04 |     |     |      | .20  | .31  | .01  |      | .84  |      | T.   | .69  |      |    |     | .03 | T.   |     |     |    |    |    |    |     |    |    |    |    |      | .03 | .02    | 2.26 |      |      |
| Couway            |               | .37 |     |     | .43  | .10  | .60  |      |      | .17  |      |      | .70  |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        | .05  |      |      |
| Darlington        |               |     |     |     | 1.15 |      | .34  |      |      |      |      |      | 1.66 | .16  |    |     | T.  |      | .02 |     |    |    |    |    |     |    |    |    |    |      |     |        | .10  |      |      |
| Due West          |               |     |     |     | .63  |      | .58  | .13  | .45  |      |      | .30  | .98  |      |    |     | .07 |      |     |     |    |    |    |    |     |    |    |    |    |      | T.  |        | 3.14 |      |      |
| Edisto            |               |     |     |     | .30  |      | .10  | .08  | .25  | .12  | 1.25 | .38  |      |      |    |     | .75 | 1.60 |     | .06 |    |    |    |    |     |    |    |    |    |      | .10 | .90    | 6.05 |      |      |
| Effingham         |               |     |     |     | 1.50 |      | .90  |      | .20  |      |      | T.   | .70  |      |    |     | .04 |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .07    | 3.41 |      |      |
| Florence          |               |     |     |     | .03  | .77  | T.   | 1.57 |      |      |      |      | 1.84 |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | 1.00   | .02  | 5.27 |      |
| Gaffney           |               |     |     |     |      | .04  |      |      |      |      |      | .04  | .11  |      |    |     | .07 |      |     |     |    |    |    |    |     |    |    |    |    |      | .75 |        | 1.47 |      |      |
| Georgetown        |               |     |     |     |      |      |      |      |      |      |      |      |      |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        |      |      |      |
| Gillisonville     | T.            |     |     |     | 1.07 | .15  | .23  | .65  | 3.47 | .25  |      | .04  | .43  | T.   |    |     | T.  |      |     |     |    |    |    |    |     |    |    |    |    |      | .11 | .84    | 8.54 |      |      |
| Greenville        |               |     |     | .24 |      |      |      |      |      |      |      | T.   | .32  | .34  |    |     |     | .08  |     |     |    |    |    |    |     |    |    |    |    |      | .26 | 1.09   | .41  | 4.04 |      |
| Greenwood         |               |     |     |     | .40  |      | .20  |      |      |      |      |      | .50  | .60  |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        | 1.70 |      |      |
| Heath Springs     |               |     |     |     | .18  |      | .14  |      |      |      |      | .02  | 1.28 |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | T.     | 1.82 |      |      |
| Kingstree(1)      |               |     |     |     | .04  | .11  | .46  | .05  | .25  | .19  |      | T.   | 1.09 |      |    |     | .08 | T.   |     | .20 |    |    |    |    |     |    |    |    |    |      |     | .28    | 2.92 |      |      |
| Kingstree(2)      |               |     |     |     | .04  | .10  | .44  | .05  | .25  | .19  |      | T.   | 1.12 |      |    |     | .08 | T.   |     | .20 |    |    |    |    |     |    |    |    |    |      |     | .27    | 2.94 |      |      |
| Liberty           |               | .40 | T.  |     | T.   | T.   | T.   |      | .05  | .86  | T.   | T.   | 1.02 |      |    |     | T.  |      |     | T.  |    |    |    |    |     |    |    |    |    |      | T.  | T.     | 2.33 |      |      |
| Little Mountain   |               |     |     |     | .44  | .29  | .05  |      |      | .01  |      | .08  | 1.23 |      |    |     | .12 |      | .06 |     |    |    |    |    |     |    |    |    |    |      |     | .03    | 5.50 |      |      |
| Longshore         | .35           | .07 |     |     | 1.45 | .04  |      |      |      |      |      | .67  | .75  |      |    |     | .06 |      | T.  |     |    |    |    |    |     |    |    |    |    |      |     | .05    | 3.44 |      |      |
| Lugoff            |               | .29 |     |     |      | .01  | .04  |      | T.   | T.   |      |      | 1.09 |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        | T.   | .06  | 1.88 |
| Pinopolis         |               |     |     | .35 | .68  | .08  |      | .14  |      | 1.16 |      | .35  | 1.04 |      |    |     | .03 | .05  | .24 |     |    |    |    |    |     |    |    |    |    |      |     | .27    | .04  | 4.43 |      |
| St. Georges       |               |     |     |     |      | .20  |      |      | .20  | 1.10 | .99  | .15  |      | .75  |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .20    | .15  | 3.74 |      |
| St. Matthews      |               |     |     |     |      | .60  | 1.73 |      |      | .12  | 2.75 | .18  |      | 1.65 |    |     | .10 |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .68    | .20  | 8.07 |      |
| St. Stephens      |               |     |     |     | .70  | .36  | .93  |      |      |      | .96  |      |      | .80  |    |     |     |      |     | .05 |    |    |    |    |     |    |    |    |    |      |     |        | .45  | 4.25 |      |
| Saluda            |               |     |     |     | .36  | .24  | T.   |      | .06  | .09  | .38  | .02  |      |      |    | .04 | .04 | .06  |     |     |    |    |    |    |     |    |    |    |    |      |     |        | 1.64 |      |      |
| Santuc.           |               |     |     |     | 1.09 | .24  | .02  |      |      |      | .35  | .49  |      |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        | .34  | .02  |      |
| Savannah, Ga.     | T.            |     |     |     | T.   | .13  | .51  | .01  | .03  | .07  | .01  | T.   | .20  | .01  |    |     |     | .08  |     |     |    |    |    |    |     |    |    |    |    |      |     |        | .70  | .34  | 2.75 |
| Seivern           | T.            | T.  |     |     | 1.50 |      | 2.60 | .04  |      |      |      | .16  | 2.30 |      |    | .06 |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        | .16  | 6.54 |      |
| Smiths Mills      |               |     |     |     | 1.65 |      | .42  |      |      |      |      | 2.15 | .32  | .02  |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        | .09  | 6.69 |      |
| Society Hill      |               | .48 |     |     |      | .67  | .04  |      |      |      |      | .19  |      | .19  |    |     | .04 |      | .08 |     |    |    |    |    |     |    |    |    |    |      |     | .03    | .05  | 5.88 |      |
| Spartanburg       |               |     |     | T.  |      | .01  | 1.14 |      |      | .13  |      | .03  | 1.43 |      |    |     |     |      | .36 |     |    |    |    |    |     |    |    |    |    |      |     | 1.01   | T.   | .03  | 2.17 |
| Stateburg         |               |     |     |     | .01  | 1.14 |      |      |      |      |      | .31  | .47  |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .18    | .35  | 3.03 |      |
| Summerville       |               |     |     |     | .70  | .13  | .02  | .10  | 1.02 | .01  |      | .31  | .47  |      |    |     | .01 | .24  | .01 |     |    |    |    |    |     |    |    |    |    |      |     | .06    | .05  | 3.13 |      |
| Sumter            |               |     |     |     |      |      | .59  |      |      | .24  |      | .06  | 2.20 | .15  |    |     | .03 |      |     |     |    |    |    |    |     |    |    |    |    |      |     | .04    | 1.42 | 4.90 |      |
| Temperance        |               |     |     |     |      |      |      |      |      |      |      |      |      |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        |      |      |      |
| Trenton           |               |     |     |     |      |      |      |      |      |      |      |      |      |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        |      |      |      |
| Trial             |               | T.  |     |     | .34  |      | .37  |      |      | .24  | T.   | .16  | .49  |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     | T.     | .21  | 1.88 |      |
| Walhalla          |               |     |     |     | .13  | .62  |      | .02  | .12  | 2.17 | .05  | .16  | .45  |      |    |     |     | .04  |     | .11 |    |    |    |    |     |    |    |    |    |      |     | .45    | .05  | 4.37 |      |
| Walterboro        |               |     |     |     | .90  |      | .16  |      |      | .46  |      | .45  | .22  |      |    |     |     |      |     |     |    |    |    |    |     |    |    |    |    |      |     |        | .12  | .21  | 2.41 |
| Wilmington, N. C. | .23           |     |     | .35 | .07  | .20  | .02  | 1.58 | 1.96 | T.   | .16  | .40  | .39  |      |    |     | T.  |      |     |     |    |    |    |    |     |    |    |    |    |      |     | T.     | .46  | 5.82 |      |
| Winnboro          |               |     |     |     | .33  |      | .11  |      |      | .09  |      |      | 1.90 |      |    |     |     |      |     | .50 |    |    |    |    |     |    |    |    |    |      |     |        | .10  | .09  | 3.00 |
| Winthrop College  |               |     |     |     | .10  |      | .07  |      |      |      |      | .03  | .56  |      |    |     |     |      | .02 |     |    |    |    |    |     |    |    |    |    |      |     |        | .17  | .95  |      |
| Yemassee          |               |     | .03 |     |      | .82  | .35  | .40  | 1.50 | 1.89 |      |      | .25  |      |    |     |     | T.   |     |     |    |    |    |    |     |    |    |    |    |      |     | .09    | .26  | 5.68 |      |
| Yorkville         |               |     |     |     | .22  | .35  |      |      |      |      |      |      | .52  |      |    |     |     | .14  |     |     |    |    |    |    |     |    |    |    |    |      |     | T.     | .23  | 1.23 |      |

T indicates trace, less than . or inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR AUGUST, 1903.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1903.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR AUGUST, 1903.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.  
COLUMBIA, S. C.

VOL. VI. COLUMBIA, S. C., August, 1903. No. 8.

PROGRESS OF FARMWORK.

The weather conditions during the first two decades of August were conducive to rapid growth of field crops, but unfavorable for their cultivation, and laying by was not finished until near the close of the month. The temperature was about normal, with small variations from day to day, and the precipitation was copious, especially over the eastern parts of the State, and was not deficient in any part except over small areas in the western counties. The favorable growing weather ended on the 22nd, when a period of extreme heat set in that gave maximum temperatures of from 90° to over 100° each day over the whole State. This heat wave terminated on the 30th. During this time there was practically no precipitation, and the relative humidity was abnormally low, causing the surface soil to dry out rapidly, and vegetation to wilt during the latter part. Relief came on the 31st, in the form of lower temperature and quite general rains, heavy in places, but not in time to avert a general and rapid deterioration of growing crops, although it checked deterioration to some extent.

The early corn ripened during the month, and fodder was gathered from it although the first three weeks were unfavorable for curing fodder. Late corn improved steadily until the hot, dry weather set in when it became less promising.

Cotton made excellent growth, and fruited well during the greater part of the month. There was a too rank growth of weed in places, but generally the stalks attained a medium size. On sandy lands there were indications of early maturity, before the hot weather set in, and some rust has appeared but on clayey soils the plants were healthy, vigorous, very sappy, and covered with squares and young bolls, and more promising than at any previous time during this season. The hot, dry weather stopped growth and caused rust to spread rapidly, and the rust soon infected other than sandy land cotton. The heat and dryness also caused excessive shedding of leaves, squares and young bolls, a process of deterioration that became general by the close of the month, and included all varieties of cotton except sea-island. The first bale was ginned on the 11th, four days later than the

average date of first bale, and some picking was done to the end of the month in the eastern counties, but picking did not become general even in the earliest sections, while no cotton opened in the western counties.

Late tobacco curing was finished. The condition of minor crops continued promising, especially of cane, rice and sweet potatoes. The hay crop was unusually promising over the eastern parts. In the truck districts preparation of lands and planting operations made favorable progress.

Barometer and Wind Table for August, 1903.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 29.98      | 30.31    | 2     | 29.78   | 20    | 3.275           | 4.4             | 32                | De.        | 4     |
| Charleston.....       | 29.99      | 30.33    | 2     | 29.81   | 20    | 6.354           | 8.5             | 30                | se.        | 18    |
| Charlotte, N. C.....  | 30.00      | 30.36    | 2     | 29.81   | 20    | 3.343           | 4.5             | 30                | se.        | 5     |
| Columbia.....         | 29.98      | 30.34    | 2     | 29.70   | 20    | 4.083           | 5.5             | 25                | n.         | 8     |
| Savannah, Ga.....     | 29.99      | 30.29    | 2     | 29.80   | 20    | 4.644           | 6.2             | 30                | n.         | 3     |
| Wilmington, N. C..... | 29.95      | 30.31    | 2     | 29.78   | 20    | 4.709           | 6.4             | 42                | nw.        | 30    |
| Averages.....         | 29.98      | 30.36    | 2     | 29.78   | 20    | 4.411           | 5.9             | 42                | nw.        | 30    |

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for August, 1903, was 80.6°, which is 1.2° above normal. The highest local mean was 82.4° at Allendale; the lowest 75.6° at Greenville. The highest maximum was 105° at Gaffney on the 25th; the lowest minimum was 60° at Seivern on the 22nd, making the State range 45°. The greatest local monthly range was 42° at Seivern, the least was 26° St. Matthews. The mean of the daily maximum temperatures was 90.6°, of the daily minimum temperatures 70.5°.

Precipitation, in Inches.

The precipitation averaged 7.15 inches, which is 1.35 above normal. The greatest local monthly amount was 12.83 at St. Stephens, the least 305 at Clarks Hill. The greatest 24-hourly fall was 6.50 at Heath Springs on the 14th. The average number of days with rain was 12, ranging from 6 at Winnsboro to 21 at Stateburg.

Excessive Precipitation.—Allendale, 13th, 1.65 in 53 mins.; Batesburg, 3rd, 2.70 in 6 hrs. 30 mins.; Beaufort, 19th, 2.69 in 24 hrs.; Bowman, 14th, 2.05 in 1 hr. 20 mins.; Cheraw, 11th, 0.98 in 30 mins.; Heath Springs, 14th, 6.50 in 3 hrs.; Little Mountain, 14th, 2.60 in 12 hrs.; Lugoff, 8th, 2.30 in 2 hrs.; St. Stephens, 14th, 3.72 in 24 hrs.; Saluda, 2nd, 2.60 in 24 hrs.; Society Hill, 15th, 4.30 in 24 hrs.; Temperance, 16th, 2.90 in 24 hrs.; Trenton, 4th, 2.68 in 24 hrs.; Trial, 3rd, 2.25 in 1 hr. 35 mins.; Walhalla, 17th, 3.00 in 3 hrs. 30 mins.; Walterboro, 19th, 2.96 in 18 hrs.; Yemassee, 15th, 4.10 in 20 hrs.

Hail.—Allendale, 13th; Cheraw, 31st; Longshore, 14th.

Weather.—The average number of clear days was 15, of partly cloudy 9, and of cloudy 7.



Winds.—The prevailing direction of the wind was from the west and southwest at 14 stations, from the south at 8, from the north, northeast and southwest at 3 each, and from the east and northwest at 2 each.

High Winds.—Lugoff, 8th; Sumter, 8th.

#### MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston, 5, 6, 7, 8, 13.

Lunar Halos.—Barksdale, 29; Blackville, 30; Charleston, 4, 5, 6, 7, 8; Little Mountain, 30; Saluda, 6, 28; Sumter, 27.

Dense Fog.—Blackville, 3, 4, 21, 22; Bowman, 4; Charleston, 23, 24; Gaffney, 4, 20, 21; Liberty, 3, 4, 11; Lugoff, 4, 5; Saluda, 4, 5, 17, 21; Society Hill, 4, 22; Stateburg, 4, 22; Trial, 4; Yorkville, 20.

Thunderstorms.—Allendale, 1, 2, 4, 5, 6, 7, 10, 11, 13, 14, 19, 20, 21; Beaufort, 1, 2, 3, 4, 5, 6, 7, 9, 11, 12, 13, 14, 15, 16, 18, 19, 28, 30, 31; Blackville, 1, 2, 3, 4, 5, 8, 11, 12, 13, 14, 15, 16, 17, 31; Bowman, 13, 14, 19, 20, 30, 31; Cheraw, 1, 2, 3, 4, 5, 6, 10, 11, 12, 14, 20, 30, 31; Darlington, 30, 31; Florence, 30; Gillisonville, 1, 2, 3, 4, 5, 6, 7, 9, 11, 12, 13, 14, 15, 16, 19, 21, 30, 31; Greenville, 4; Liberty, 1, 2, 3, 4, 12, 13, 14, 15, 16, 17, 18, 20, 29; Little Mountain, 1, 2, 4, 13, 14, 15; Longshore, 1, 2, 4, 11, 13, 14, 15; Lugoff, 3, 8, 10, 12, 13, 14, 30, 31; Saluda, 1, 2, 4; Santuc, 1, 3, 4, 14, 16, 17, 18; Society Hill, 10, 15, 30; Stateburg, 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 29, 30, 31; Summerville, 1, 7, 9, 11, 12, 13, 14, 15, 16, 30, 31; Sumter, 8, 12, 30, 31; Trenton, 4, 9, 10, 11, 13, 17; Trial, 1, 2, 3, 5, 9, 11, 12, 13, 14, 16, 28, 30; Winthrop College, 1, 3, 12, 13, 15, 16, 29, 30; Yorkville, 1, 13, 16, 18, 30, 31.

Arranged by dates, it is found that 197 thunderstorms were reported, and that they occurred on dates as follows: 1st, 15; 2nd, 11; 3rd, 9; 4th, 13; 5th, 7; 6th, 5; 7th, 5; 8th, 4; 9th, 6; 10th, 6; 11th, 10; 12th, 11; 13th, 15; 14th, 14; 15th, 9; 16th, 9; 17th, 4; 18th, 4; 19th, 4; 20th, 4; 21st, 2; 28th, 2; 29th, 3; 30th, 14; 31st, 11.

In addition to the above, Charleston had thunderstorms on 1, 2, 3, 7, 9, 11, 12, 13, 14, 15, 16, 18, 19, 20, 25, 30, 31; Columbia, 1, 2, 3, 4, 5, 7, 8, 10, 11, 13, 14, 29, 31.

#### REMARKS BY OBSERVERS.

Allendale.—First of month was rainy and little farmwork could be done, but it closed dry and hot. New cotton was marketed freely. Corn was promising.—R. D. Peeples.

Anderson.—Cotton began to open at the close of the month. All crops were suffering for rain.—R. B. Dean.

Barksdale.—Cotton has a large weed, but is not well fruited.—E. V. Garrett.

Batesburg.—Almost daily rains up to the 20th, followed by hot and dry weather damaged crops considerably. Old cotton opened rapidly toward the close of the month. Minor crops are promising.—E. J. Hite.

Beaufort.—Mean temperature  $0.2^{\circ}$  above normal, precipitation 0.12 below. Hot and dry weather during the last ten days caused cotton to open rapidly. Fall crops and gardens suffered. Pastures good, and stock in fair condition.—S. M. Benton.

Blackville.—Monthly mean temperature  $1.2^{\circ}$  above normal, precipitation 0.10 below.—G. D. C. Lange.

Bowman.—The heat during the latter part of the month was detrimental to growing crops and caused cotton to shed its fruit badly. Growth continues on some cotton, with promise of a top-crop.—B. C. Evans.

Clarks Hill.—Last part of the month was unusually hot, with a maximum temperature of  $102^{\circ}$  on the 27th, this being the hottest day of the year. Cotton and other vegetation withered under the scorching sun.—Wm. S. Middleton.

Gillisonville.—The month was wet, with hot days and pleasant nights. Cotton failed during the closing week owing to excessive shedding and to rust. Cotton opened rapidly during the last week.—Sam P. Saltus.

Heath Springs.—All crops improved during the month, although high water destroyed some on bottom lands. Some cotton was picked toward the close. There was need of rain at the close of the month.—J. H. Weaner.

Liberty.—The weather was favorable to plant growth during the first 20 days, after which the heat and dryness was parching, and crops were injured.—John T. Boggs.

Summerville.—The night of the 27th was the hottest since records were begun, the minimum temperature having been  $78^{\circ}$ —Miss L. R. Gadsden.

Stateburg.—The weather was generally unfavorable to crops, but varied in its effects according to the nature of the soil, clayey lands having suffered comparatively little. Both the excessive rainfall during the first 20 days and the heat of the following 9 days were damaging to crops on sandy soils. Showers on the 30-31st were very beneficial.—W. W. Anderson, M. D.

Trenton.—Precipitation 1.55 inches less than normal for August, and 0.33 more than the average for the first 8 months of the year. The dry and hot weather during the last week caused cotton to shed and rust badly.—C. A. Long.

ERRATA.—In the July monthly report, on page 5, Anderson mean temperature  $81.0^{\circ}$  should be  $80.6^{\circ}$ ; Barksdale mean temperature  $78.4^{\circ}$  should be  $79.8^{\circ}$ ; Heath Springs mean temperature  $80.3^{\circ}$  should be  $80.4^{\circ}$ ; Santuc mean temperature  $80.1^{\circ}$  should be  $80.2^{\circ}$ ; Seivern mean temperature  $80.6^{\circ}$  should be  $80.7^{\circ}$ . On page 6, Anderson mean maximum  $93.2^{\circ}$  should be  $92.5^{\circ}$ ; Barksdale mean maximum  $90.0^{\circ}$  should be  $90.6^{\circ}$ ; Heath Springs mean maximum  $93.5^{\circ}$  should be  $93.4^{\circ}$ , and mean minimum  $67.2^{\circ}$  should be  $67.3^{\circ}$ ; Santuc mean minimum  $67.3^{\circ}$  should be  $67.4^{\circ}$ ; Seivern mean minimum  $67.0^{\circ}$  should be  $67.1^{\circ}$ ; Sumter mean maximum  $93.5^{\circ}$  should be  $93.8^{\circ}$ , and mean minimum  $70.0^{\circ}$  should be  $69.0^{\circ}$ .



CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST, 1903.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       | Sky.                        |                    |                    |                            | Observer. |                        |                               |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|-----------|------------------------|-------------------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snow fall, unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. |           | Number overcast days.  | Prevailing direction of wind. |
| Aiken                                 | Aiken        | 565             | 2                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |           | L. M. Coward           |                               |
| Allendale                             | Barnwell     | 186             | 15                      | 82.4                               | +2.5                       | 99       | 28*   | 60      | 22    | 23                       | 1.81   | -2.75                      | 1.65                  |                             | 8                  | 21                 | 6                          | 3         | R. D. Peoples.         |                               |
| Anderson                              | Anderson     | 704             | 2                       | 80.3                               | +3.1                       | 100      | 26    | 65      | 22    | 28                       | 5.31   | -0.48                      | 2.31                  |                             | 8                  | 17                 | 13                         | 1         | R. B. Dean.            |                               |
| Augusta, Ga.                          | Richmond     | 134             | 32                      | 81.3                               | +1.9                       | 98       | 26    | 67      | 4     | 23                       | 8.98   | +3.80                      | 3.42                  |                             | 13                 | 10                 | 19                         | 2         | Weather Bureau.        |                               |
| Barksdale                             | Laurens      | 780             | 2                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |           | E. V. Garrett.         |                               |
| Batesburg                             | Lexington    | 656             | 15                      | 79.6                               | +0.4                       | 98       | 21    | 62      | 14    | 32                       | 7.86   | +2.19                      | 2.70                  |                             | 9                  | 18                 | 4                          | 9         | E. J. Hite.            |                               |
| Beaufort                              | Beaufort     | 28              | 17                      | 81.9                               | +0.2                       | 97       | 24    | 70      | 24    | 23                       | 6.57   | -0.12                      | 2.69                  |                             | 11                 | 17                 | 10                         | 4         | S. M. Benton.          |                               |
| Bennettsville                         | Marlboro     |                 | 2                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |           | Jno. L. McCall.        |                               |
| Blackville                            | Barnwell     | 296             | 15                      | 81.6                               | +1.3                       | 100      | 25*   | 67      | 22    | 27                       | 5.89   | 0.10                       | 1.57                  |                             | 13                 | 8                  | 20                         | 3         | G. D. C. Lange.        |                               |
| Bowman                                | Orangeburg   | 160             | 2                       | 81.4                               |                            | 101      | 28    | 66      | 22    | 29                       | 7.43   |                            | 2.05                  |                             | 11                 | 15                 | 13                         | 3         | B. O. Evans.           |                               |
| Calhoun Falls                         | Abbeville    | 508             | 10                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                             | 2                  | 26                 | 0                          | 5         | P. J. Pfeiffer.        |                               |
| Camden                                | Kershaw      | 222             | 37                      |                                    |                            |          |       |         |       |                          | 7.77   | +2.85                      | 2.00                  |                             | 10                 | 15                 | 7                          | 9         | H. G. Carrison.        |                               |
| Charleston                            | Charleston   | 48              | 34                      | 82.1                               | +1.6                       | 98       | 28    | 70      | 31    | 18                       | 10.83  | +3.21                      | 2.91                  |                             | 14                 | 9                  | 16                         | 6         | Weather Bureau.        |                               |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 25                      | 78.8                               | +2.1                       | 96       | 29    | 64      | 2     | 26                       | 4.55   | -0.78                      | 1.08                  |                             | 13                 | 15                 | 7                          | 9         | Weather Bureau.        |                               |
| Cheraw (1)                            | Chestertield | 144             | 15                      | 79.0                               | -0.1                       | 98       | 28    | 66      | 22    | 26                       | 9.00   | +3.62                      | 2.00                  |                             | 12                 | 14                 | 4                          | 13        | W. R. Godfrey.         |                               |
| Cheraw (2)                            |              | 144             | 10                      |                                    |                            |          |       |         |       |                          | 7.97   | +2.22                      | 2.01                  |                             | 13                 | 14                 | 6                          | 11        | Jno. H. Powe.          |                               |
| Clarks Hill                           | Edgefield    | 456             | 1                       | 82.3                               |                            | 102      | 27    | 67      | 19*   | 30                       | 3.05   | 0.77                       |                       |                             | 11                 | 10                 | 14                         | 7         | Wm. S. Middleton.      |                               |
| Clemson College                       | Oconee       | 850             | 12                      | 80.5                               | +0.4                       | 102      | 29    | 63      | 22    | 36                       | 4.41   | -0.51                      | 1.56                  |                             | 9                  | 10                 | 11                         | 3         | Prof. C. C. Newman.    |                               |
| Columbia                              | Richland     | 351             | 16                      | 80.5                               | +0.7                       | 97       | 25    | 68      | 22    | 22                       | 9.47   | +2.62                      | 2.93                  |                             | 16                 | 8                  | 12                         | 11        | Central Office.        |                               |
| Conway                                | Horry        | 25              | 12                      | 81.5                               |                            | 100      | 28    | 65      | 16*   | 27                       | 8.42   | +2.21                      | 2.00                  |                             | 13                 | 16                 | 4                          | 11        | P. Quattlebaum.        |                               |
| +Darlington                           | Darlington   | 175             | 8                       | 80.9                               |                            | 100      | 26*   | 64      | 22    | 25                       | 10.01  | +5.47                      | 2.44                  |                             | 15                 | 15                 | 10                         | 6         | E. R. McIver.          |                               |
| Due West, c                           | Abbeville    | 710             | 2                       | 79.7                               |                            | 95       | 25*   | 67      | 22    | 25                       | 3.15   |                            | 1.02                  |                             | 7                  | 16                 | 11                         | 1         | Rev. O. Y. Bonner.     |                               |
| Edisto                                | Bamberg      | 127             | 10                      |                                    |                            |          |       |         |       |                          | 8.16   | +2.91                      | 1.40                  |                             | 15                 | 19                 | 5                          | 7         | J. L. Padgett.         |                               |
| Edlingham                             | Florence     | 106             | 11                      |                                    |                            |          |       |         |       |                          | 7.20   | +1.46                      | 1.40                  |                             | 11                 | 16                 | 3                          | 12        | H. B. McCall.          |                               |
| Florence                              | Florence     | 136             | 15                      | 80.8                               | +0.3                       | 100      | 28    | 65      | 22*   | 29                       | 5.92   | +1.40                      | 1.46                  |                             | 14                 | 18                 | 6                          | 7         | Howell DeBerry.        |                               |
| Gaffney                               | Cherokee     | 893             | 7                       | 80.8                               |                            | 105      | 25    | 64      | 11*   | 34                       | 3.30   | -2.73                      | 1.80                  |                             | 9                  | 14                 | 4                          | 13        | B. F. Camp.            |                               |
| Georgetown                            | Georgetown   | 12              | 10                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |           | W. T. Turbeville.      |                               |
| Gillisonville                         | Hampton      | 50              | 8                       | 81.7                               | +0.1                       | 99       | 27*   | 69      | 5*    | 25                       | 6.24   | -2.40                      | 1.78                  |                             | 14                 | 14                 | 8                          | 9         | Sam P. Salts.          |                               |
| Greenville                            | Greenville   | 989             | 11                      | 75.6                               | -1.5                       | 93       | 25*   | 63      | 17*   | 27                       | 4.05   | -1.51                      | 1.12                  |                             | 12                 | 17                 | 5                          | 9         | Mrs. S. A. Crittenden. |                               |
| Greenwood                             | Greenwood    | 671             | 15                      | 80.2                               | +1.0                       | 95       | 28*   | 66      | 21*   | 22                       | 7.46   | +1.94                      | 2.10                  |                             | 7                  | 17                 | 1                          | 13        | M. M. Calhoun.         |                               |
| Heath Springs                         | Laurens      |                 | 2                       | 81.1                               |                            | 102      | 14*   | 62      | 22*   | 34                       | 12.15  |                            | 6.50                  |                             | 14                 | 15                 | 10                         | 6         | J. A. Weaver.          |                               |
| Kingstree (1)                         | Williamsburg | 54              | 15                      | 80.4                               | +0.4                       | 100      | 28    | 64      | 4     | 27                       | 8.64   | +2.56                      | 1.60                  |                             | 14                 | 19                 | 5                          | 7         | W. H. Edwards.         |                               |
| Kingstree (2)                         |              | 54              | 9                       |                                    |                            |          |       |         |       |                          | 8.60   | +1.92                      | 1.62                  |                             | 14                 | 17                 | 4                          | 10        | W. H. Matthews.        |                               |
| Liberty                               | Pickens      | 900             | 9                       | 80.1                               | +2.7                       | 99       | 27*   | 61      | 18    | 30                       | 4.74   | -3.09                      | 1.30                  |                             | 9                  | 14                 | 17                         | 0         | Jno. T. Boggs.         |                               |
| +Little Mountain                      | Newberry     | 711             | 10                      | 80.6                               | +0.4                       | 99       | 25*   | 67      | 3*    | 26                       | 6.55   | +1.41                      | 2.60                  |                             | 12                 | 14                 | 9                          | 8         | John M. Sease, M. D.   |                               |
| +Longshore                            | Newberry     | 530             | 10                      | 80.6                               | +1.7                       | 100      | 26    | 65      | 22*   | 32                       | 8.56   | +3.26                      | 1.85                  |                             | 10                 | 16                 | 3                          | 12        | W. G. Peterson.        |                               |
| Lugoff                                | Kershaw      | 168             | 2                       | 80.6                               |                            | 101      | 28    | 64      | 22    | 30                       | 7.01   |                            | 2.30                  |                             | 15                 | 12                 | 12                         | 7         | W. J. Burdell, M. D.   |                               |
| +Pinopolis                            | Berkeley     | 54              | 10                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |           | E. P. Ravenel.         |                               |
| St. Georges                           | Dorchester   | 109             | 15                      | 80.8                               | +1.1                       | 97       | 28    | 68      | 22    | 23                       | 5.93   | -0.47                      | 1.93                  |                             | 16                 | 16                 | 7                          | 8         | W. B. Raynor.          |                               |
| St. Matthews                          | Orangeburg   | 269             | 15                      | 80.8                               | +0.4                       | 96       | 27*   | 70      | 17*   | 21                       | 8.63   | +2.31                      | 2.22                  |                             | 15                 | 12                 | 6                          | 13        | J. S. Warramaker.      |                               |
| St. Stephens                          | Berkeley     | 73              | 11                      |                                    |                            |          |       |         |       |                          | 12.83  | +5.01                      | 3.72                  |                             | 15                 | 15                 | 5                          | 11        | C. T. Shuler.          |                               |
| Saluda                                | Saluda       | 536             | 2                       | 81.0                               |                            | 99       | 25*   | 64      | 22    | 29                       | 5.93   |                            | 2.60                  |                             | 10                 | 18                 | 7                          | 6         | W. Alvin Etheridge.    |                               |
| Santee                                | Union        | 512             | 10                      | 79.5                               | +1.0                       | 100      | 28    | 62      | 22    | 32                       | 3.95   | 1.14                       | 0.86                  |                             | 13                 | 13                 | 17                         | 1         | E. W. Jeter.           |                               |
| Savannah, Ga.                         | Chatham      | 71              | 34                      | 82.2                               | +1.9                       | 99       | 28    | 70      | 31    | 22                       | 5.17   | -2.57                      | 2.10                  |                             | 15                 | 8                  | 13                         | 10        | Weather Bureau.        |                               |
| Severn a                              | Aiken        | 482             | 2                       | 80.8                               | +0.5                       | 102      | 28    | 60      | 22    | 35                       | 5.91   | -0.53                      | 1.63                  |                             | 13                 | 12                 | 14                         | 4         | J. F. Lyles.           |                               |
| Smiths Mills                          | Williamsburg | 62              | 8                       |                                    |                            |          |       |         |       |                          | 8.30   | +1.63                      | 2.10                  |                             | 12                 | 17                 | 4                          | 10        | H. van Keuren.         |                               |
| Society Hill                          | Darlington   | 192             | 12                      | 80.5                               | +2.1                       | 95       | 28    | 65      | 21    | 23                       | 7.59   | +1.97                      | 4.30                  |                             | 13                 | 18                 | 2                          | 11        | J. J. Lucas.           |                               |
| Spartanburg                           | Spartanburg  | 875             | 12                      | 79.0                               | 0                          | 98       | 25    | 64      | 2     | 30                       | 4.64   | -0.89                      | 1.40                  |                             | 13                 | 18                 | 1                          | 12        | F. P. Robinson.        |                               |
| Stateburg                             | Sumter       | 500             | 23                      | 80.0                               | +2.3                       | 96       | 27*   | 66      | 8     | 25                       | 7.52   | +2.39                      | 1.34                  |                             | 21                 | 9                  | 12                         | 10        | W. W. Anderson, M. D.  |                               |
| Summerville                           | Dorchester   | 75              | 6                       | 79.8                               | -0.2                       | 95       | 27*   | 68      | 16*   | 21                       | 7.59   | -1.85                      | 1.39                  |                             | 17                 | 14                 | 12                         | 5         | Miss L. R. Gadsden.    |                               |
| Sumter                                | Sumter       | 169             | 2                       | 81.8                               |                            | 102      | 29    | 65      | 22    | 31                       | 6.64   |                            | 1.51                  |                             | 17                 | 10                 | 17                         | 4         | F. Prescott Bullock.   |                               |
| Temperance l.                         | Marion       | 100             | 5                       | 80.6                               | +0.2                       | 98       | 26*   | 65      | 22    | 23                       | 9.96   | +4.49                      | 2.90                  |                             | 10                 | 12                 | 10                         | 2         | ne.                    |                               |
| +Trenton                              | Edgefield    | 620             | 10                      | 81.2                               | +0.8                       | 100      | 28    | 68      | 4*    | 27                       | 5.44   | -1.46                      | 2.68                  |                             | 13                 | 8                  | 22                         | 1         | s.                     |                               |
| Trials                                | Berkeley     | 85              | 17                      | 78.8                               | +1.1                       | 96       | 25*   | 64      | 17*   | 25                       | 10.99  | +3.37                      | 2.25                  |                             | 15                 | 8                  | 16                         | 7         | w.                     |                               |
| Walhalla                              | Oconee       | 1061            | 13                      | 78.0                               | +1.3                       | 96       | 25*   | 62      | 17    | 29                       | 7.10   | +1.18                      | 3.00                  |                             | 10                 | 15                 | 10                         | 6         | ne.                    |                               |
| Walterboro                            |              |                 |                         | 81.0                               |                            | 98       | 28    | 68      | 24    | 25                       | 7.17   |                            | 2.96                  |                             | 10                 | 14                 | 10                         | 7         | s.                     |                               |
| Wilmington, N. C.                     | New Hanover  | 52              | 34                      | 79.8                               | +1.6                       | 97       | 28    | 66      | 31    | 27                       | 14.35  | +6.88                      | 3.87                  |                             | 18                 | 10                 | 12                         | 9         | SW.                    |                               |
| Winnboro                              | Fairfield    | 545             | 14                      | 81.8                               | +3.8                       | 99       | 28*   | 64      | 2     | 25                       | 3.36   | -1.44                      | 1.50                  |                             | 6                  | 15                 | 12                         | 4         | se.                    |                               |
| Winthrop College                      | York         | 690             | 4                       | 79.6                               | +1.6                       | 97       | 28    | 65      | 2     | 25                       | 4.37   | -0.01                      | 1.51                  |                             | 10                 | 17                 | 13                         | 1         | SW.                    |                               |
| Yemassee                              | Beaufort     | 23              | 8                       | 81.4                               | -0.2                       | 99       | 28    | 69      | 23    | 25                       | 10.58  | +3.81                      | 4.10                  |                             | 13                 | 16                 | 9                          | 6         | SW.                    |                               |
| +Yorkville                            | York         | 650             | 15                      | 81.3                               | +3.4                       | 99       | 28*   | 66      | 2     | 28                       | 5.82   | +0.86                      | 2.08                  |                             | 11                 | 12                 | 10                         | 9         | SW.                    |                               |
| MEANS—highest, lowest and dates, etc. |              |                 |                         |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |           |                        |                               |
|                                       |              |                 |                         |                                    | 80.6                       | +1.2     | 105   | 25      | 60    | 22                       | 36     | 7.15                       | +1.35                 | 6.50                        |                    | 12                 | 15                         | 9         | 7                      | SW.                           |

NOTE.—All records are used in determining State or district means, but State and district departures are determined by comparison of current data of only such stations as have ten or more years record.    † Maximum thermometer not standard.    + Minimum thermometer not standard.    § Exposed not standard.  
\* On other dates also.    a indicates 1 day missing, b, 2 days, etc.  
NOTE.—Reports from Stateburg, Bennettsville, Georgetown and Pinopolis received too late to be used in determining the means and departures.



m indicates 1 day missing; b 2 days, etc.

[illegible]



# TOTAL PRECIPITATION FOR AUGUST 1903.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1903.

| STATIONS.         | Day of Month. |      |      |      |      |      |     |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |    |    |    |    |    |    |    |     |      | Total. |       |      |
|-------------------|---------------|------|------|------|------|------|-----|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|-----|----|----|----|----|----|----|----|-----|------|--------|-------|------|
|                   | 1             | 2    | 3    | 4    | 5    | 6    | 7   | 8    | 9    | 10  | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  | 31   |        |       |      |
| Aiken             | T.            | .08  |      | .92  | T.   | T.   |     | .33  |      | .28 | T.   |      | 1.65 | T.   |      |      |      |      | .52  | .36  | .69  |     |    |    |    |    |    |    |    |     |      | 4.83   |       |      |
| Allendale         |               | .90  | .04  | T.   |      |      |     |      |      | .57 |      | T.   |      | .20  | .19  | .95  |      | 2.31 |      | .06  | .40  | .83 |    |    |    |    |    |    |    | T.  | .01  | 5.34   |       |      |
| Anderson          | .02           | .21  | 2.03 | 1.30 | .02  |      |     |      | .10  | T.  | T.   |      | T.   | .58  | .20  | 3.22 |      |      |      |      |      |     |    |    |    |    |    |    |    |     |      | 8.98   |       |      |
| Barksdale         |               |      |      | .03  |      |      |     |      |      |     |      |      |      | .40  |      |      |      |      |      |      |      |     |    |    |    |    |    |    |    |     |      |        |       |      |
| Batesburg         | .05           |      | 2.70 | T.   | 1.05 |      |     |      |      | .11 | T.   |      |      | .05  | 2.03 |      |      |      | 1.53 | .15  | .13  |     |    |    |    |    |    |    |    |     |      | 7.86   |       |      |
| Beaufort          |               |      | .02  |      | T.   |      |     |      | 1.34 |     |      | .75  | .20  | T.   | .29  | .35  | .25  | .45  | 2.69 | .13  |      |     |    |    |    |    |    |    |    |     |      | 10     | 6.57  |      |
| Bennettsville     | .33           |      | T.   |      | T.   | 1.33 |     | .83  |      |     |      | .38  |      | .12  | .64  |      |      | T.   | .75  | .04  |      |     |    |    |    |    |    |    |    |     |      | 4.52   |       |      |
| Blackville        | .01           | .24  | .06  | .55  | .22  | 1.33 |     | .62  | T.   |     |      | T.   | .16  | .43  | T.   | T.   |      | T.   | .38  | .31  | 1.57 |     |    |    |    |    |    |    |    |     |      | 5.89   |       |      |
| Bowman            | T.            | T.   | .78  |      | T.   |      | .12 |      |      | .08 | T.   | .70  | 2.05 |      |      |      | .15  | .20  | .90  | .70  |      |     |    |    |    |    |    |    |    | .35 | 1.40 | 7.43   |       |      |
| Calhoun Falls     |               |      | .22  |      |      |      |     |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |    |    |    |    |    |    |    |     |      |        |       |      |
| Camden            | .73           | 2.00 | .93  | 1.07 | .07  |      |     | 1.51 |      |     |      |      |      | .15  | .86  |      |      | .05  | T.   |      |      |     |    |    |    |    |    |    |    |     | .40  | 7.77   |       |      |
| Charleston        | T.            | T.   | .02  | .01  | T.   | .01  | .48 | 1.37 | T.   |     |      | .03  | .23  | .04  | .67  | 1.35 |      | .08  | 2.88 | 1.63 |      |     |    |    |    | T. |    |    |    |     | 2.03 | 10.83  |       |      |
| Charlotte, N. C.  | T.            | T.   | .06  | .01  | 1.08 | .46  |     |      | .11  | T.  | T.   | .24  | .25  | T.   | .12  | .93  | .74  | .03  | T.   |      |      |     |    |    |    |    |    |    |    | .19 | .33  | 4.55   |       |      |
| Cheraw(1)         | .16           | 2.41 |      | .08  | .98  | 2.00 | .10 |      | .98  | .22 |      |      | .22  | T.   | .25  | .38  |      | T.   | 1.43 | .01  |      |     |    |    |    |    |    |    |    |     |      | 9.00   |       |      |
| Cheraw(2)         | .16           | 2.01 |      | .04  | .85  | 1.71 | .09 |      | .93  | .18 |      |      | .01  | .25  | .38  |      |      |      | 1.26 | T.   |      |     |    |    |    |    |    |    |    |     |      | 10     | 7.97  |      |
| Clark's Hill      | .10           | .21  | .39  | .35  | .01  |      |     | .09  |      |     |      | T.   | T.   | .25  | .77  |      |      | .03  | .55  | .30  |      |     |    |    |    |    |    | T. | T. |     |      | 3.05   |       |      |
| Clemson College   | .28           | .38  | .15  |      |      |      |     |      | .28  |     |      |      | .15  | .94  | .60  |      |      | 1.56 |      |      | .67  |     |    |    |    |    |    |    |    |     |      | 4.41   |       |      |
| Columbia          | .60           | .58  | 2.93 | .05  | .02  |      |     | 1.42 | .01  | .24 |      | T.   | .04  | 1.57 | .67  | T.   | T.   | .05  | .15  | .04  |      |     |    |    |    |    | T. |    |    | .10 | 1.00 | 9.47   |       |      |
| Conway            | .05           | T.   | 1.27 |      |      | .15  |     |      | .05  | .44 | .53  | .05  | .50  | T.   |      |      |      | .70  | 2.00 | 1.80 |      |     |    |    |    |    |    |    |    |     |      | 8.42   |       |      |
| Darlington        | .83           |      | .14  | .06  | .02  | .13  |     | T.   |      |     |      | .36  | .04  | T.   | 2.35 | .13  | 2.12 |      | .41  | .14  | .65  |     |    |    |    |    |    |    |    | .19 | 2.44 | 10.01  |       |      |
| Due West          |               | .13  |      | 1.00 |      |      |     |      |      |     | 1.02 |      | .18  |      |      |      | .29  | .38  |      | .15  |      |     |    |    |    |    |    |    |    |     |      | 3.15   |       |      |
| Edisto            | .40           | .55  | .20  | .16  | .12  |      | .50 | 1.26 | .43  |     |      |      |      | .20  | .80  | .75  |      | .06  | 1.25 | 1.40 |      |     |    |    |    |    |    |    |    |     | .08  | 8.16   |       |      |
| Effingham         | T.            | .70  | T.   | .90  |      |      | .15 |      |      |     |      | T.   |      | .50  | .90  | .80  |      | .25  | .40  | .90  |      |     |    |    |    |    |    |    |    | .90 | .80  | 7.20   |       |      |
| Florence          | .07           | .76  |      |      | .02  |      | .06 |      |      |     |      | .05  | .09  | .39  | 1.46 | .81  |      | .17  | .27  | .60  |      |     |    |    |    |    |    |    |    | .17 | 1.00 | 5.92   |       |      |
| Gaffney           |               | 1.80 |      |      | .28  |      |     |      |      |     |      |      | .13  |      |      | .10  | .45  |      | .21  |      | .03  |     |    |    |    |    |    |    |    | .18 | .12  | 3.30   |       |      |
| Georgetown        |               |      | .20  |      |      |      |     |      | .11  |     | .07  | .15  | .12  | 1.78 | .87  | .08  | .10  | .95  | 1.06 | .17  |      |     |    |    |    |    |    |    |    |     | .56  | 6.24   |       |      |
| Gillisonville     | .02           |      | .20  |      |      |      |     |      |      | .23 |      |      |      | .52  | .06  | .02  | .46  | 1.12 | T.   | .05  |      |     |    |    |    |    |    |    |    | .27 | .07  | 4.05   |       |      |
| Greenville        |               | .66  | .08  |      | T.   |      |     |      |      |     |      | .25  |      |      | 1.25 | .25  |      | .45  | 1.28 |      |      |     |    |    |    |    |    |    |    |     |      | 7.46   |       |      |
| Greenwood         |               | 1.88 | 2.10 |      |      |      |     |      |      |     |      | .06  | .88  | 6.50 | 2.50 | .08  | .30  | .02  | .01  | .01  |      |     |    |    |    |    |    |    |    |     |      | 12.15  |       |      |
| Heath Springs     | .90           | .06  |      | .25  | .50  |      |     |      | .08  |     |      |      | .60  | 1.48 | 1.10 | .18  |      | .36  | .23  | 1.28 |      |     |    |    |    |    |    |    |    |     | .74  | 8.64   |       |      |
| Kingstree(1)      | .19           | .23  | .21  | .34  |      |      | .67 | .03  |      |     |      |      | 1.62 | 1.47 | 1.08 | .19  |      | .35  | .20  | 1.26 |      |     |    |    |    |    |    |    |    |     |      | 8.60   |       |      |
| Kingstree(2)      | .19           | .22  | .21  | .35  |      |      | .69 | .03  |      | T.  |      | .55  | T.   | 1.30 | .34  | .22  | T.   | .54  | T.   |      |      |     |    |    |    |    |    |    |    | .20 | T.   | 4.74   |       |      |
| Liberty           | .70           | .64  | T.   | .25  |      |      |     |      |      |     |      |      | 1.24 | 2.60 | .25  | .10  | .09  | .37  | .03  | .03  |      |     |    |    |    |    |    |    |    |     |      | 6.55   |       |      |
| Little Mountain   | .03           | .93  | .48  | .40  |      |      |     |      |      |     | .13  | T.   | .92  | 1.79 | .71  |      | .98  | .82  | .02  |      |      |     |    |    |    |    |    |    |    |     |      | 8.56   |       |      |
| Longshore         | 1.04          | 1.85 |      | .30  |      |      |     |      |      |     |      | T.   | T.   | .20  | .07  | .56  | 1.15 | .02  | .19  | .25  | .02  |     |    |    |    |    |    |    |    | T.  | .45  | 7.01   |       |      |
| Lugoff            | .20           | .90  | .60  | .06  |      | T.   |     | 2.30 |      | .04 | T.   |      |      |      |      |      |      |      |      |      |      |     |    |    |    |    |    |    |    |     |      |        |       |      |
| Pinopolis         |               | .08  | .12  | .08  | .40  |      | .02 | .30  | .08  |     |      | .32  |      | .30  | .90  | .40  |      | .20  | .40  | 1.93 | .20  |     |    |    |    |    |    |    |    |     | .20  | 5.93   |       |      |
| St. Georges       |               | .61  |      |      |      |      |     |      |      |     |      | .61  |      | .55  | 1.55 | .05  |      | .55  | .30  | 1.35 |      |     |    |    |    |    |    |    |    |     | .30  | 8.63   |       |      |
| St. Matthews      | .15           | .65  | .15  | .10  | .05  | .05  |     | 2.22 |      |     |      | .02  | 2.55 | 3.72 | .43  |      | .01  | .40  | .16  | .30  | .62  |     |    |    |    |    |    |    |    | .05 | 1.57 | 12.83  |       |      |
| St. Stephens      | .53           | .52  | .05  | 1.90 |      |      |     |      |      | T.  |      | .68  | .07  |      | .21  |      |      | .14  | .06  | .11  | T.   |     |    |    |    |    |    |    |    |     |      | 5.93   |       |      |
| Saluda            | .71           | 2.60 | .75  | .60  |      |      |     |      |      |     | .44  | .05  | .04  | .04  | .12  | .37  | .68  | .05  | .56  | T.   | .07  |     |    |    |    |    |    |    |    |     |      | 3.95   |       |      |
| Santuc            | .17           | T.   | .86  | .50  |      |      |     |      |      |     |      | .55  | .12  |      | 2.08 | .05  |      | .81  | .65  | .25  | .09  |     |    |    |    |    |    |    |    | .09 | T.   | .08    | 5.17  |      |
| Savannah, Ga.     | .11           |      | .18  |      |      | .02  | T.  | .84  | .05  |     | .24  |      | .04  | 1.63 |      |      | T.   | .49  | .08  | .58  |      |     |    |    |    |    |    |    |    |     | .21  | .09    | 5.99  |      |
| Seivern           | .47           | 1.03 |      | .09  | .12  |      |     |      |      |     |      |      | .04  | 1.30 | .20  | T.   |      |      | .60  | .90  | .40  |     |    |    |    |    |    |    |    |     |      | 1.10   | 8.36  |      |
| Smiths Mills      | .30           | .10  | 2.10 | .12  | .08  |      | T.  |      |      |     |      |      | 1.10 | 1.30 | .20  | T.   |      |      | .60  | .90  | .40  |     |    |    |    |    |    |    |    |     |      | 1.14   | 7.59  |      |
| Society Hill      | .11           |      |      | .09  | .02  | .13  |     |      |      | .06 | .07  | .07  |      | .14  | .40  |      |      | .15  | 1.30 | .01  |      |     |    |    |    |    |    |    |    |     |      | .12    | .04   | 4.64 |
| Spartanburg       |               | .43  | .03  |      | .40  |      |     |      |      |     | .07  | .07  |      | .14  | .40  |      |      | .15  | 1.30 | .01  |      |     |    |    |    |    |    |    |    |     |      |        | 12.04 |      |
| Stateburg         | .09           | .09  | 1.20 | .02  |      | .10  | .01 | 1.32 |      | .02 | .03  | .29  | .42  | 1.31 | .16  | .20  | .09  | .51  | .20  | .51  |      |     |    |    |    | T. |    |    |    | .03 |      | .84    | .08   | 7.52 |
| Summerville       | .66           |      | 1.39 |      |      | .04  | .01 | .64  |      | .01 | .05  | .64  | .32  | .13  | .02  | .65  | .81  | .59  | .78  |      |      |     |    |    |    |    |    |    |    |     |      | .20    | .65   | 7.59 |
| Sumter            | .14           |      | .27  |      | .05  | .22  |     | 1.51 | .05  | .85 | .08  | .02  | T.   | .16  | .33  | .21  | T.   | .75  | .60  | .40  |      |     |    |    |    |    |    |    |    |     | .10  | .90    | 6.64  |      |
| Temperance        | 1.35          |      | .16  | T.   |      |      |     |      |      | T.  | .06  |      | .06  | .11  | .15  |      |      | .05  | .70  | .49  |      |     |    |    |    |    |    |    |    |     | T.   | .48    | 9.96  |      |
| Trenton           | .11           | .49  | .46  | 2.64 | .04  |      |     | .08  | T.   |     | .06  |      | 2.03 | 1.34 |      | 1.30 | .67  | T.   | .71  | .43  |      |     |    |    |    |    |    |    |    | .02 | .91  | .37    | 10.99 |      |
| Trial             | .20           | .07  | 2.25 | T.   | .50  |      |     |      |      | .07 |      | .12  |      | .10  | .15  | .10  | 3.00 | .47  |      |      |      |     |    |    |    |    |    |    |    |     |      |        | 7.10  |      |
| Walhalla          |               | 1.40 | .75  | .10  |      |      |     |      |      | .59 |      | .44  |      | .10  | .15  | .10  | 3.00 | .47  |      |      |      |     |    |    |    |    |    |    |    |     |      | .30    | 7.17  |      |
| Walterboro        | .03           | .08  | T.   | T.   |      | .06  |     |      |      |     |      |      | .24  | .65  | .11  |      | .31  | 1.18 | 3.87 | T.   |      |     |    |    |    |    |    |    |    |     |      |        | 14.35 |      |
| Wilmington, N. C. | 1.22          | .57  | .20  | T.   |      | .06  | .02 | .11  | T.   |     | .63  | 1.33 | 1.59 | .59  | .30  | .67  |      |      |      |      |      |     |    |    |    |    |    |    |    |     | T.   | .27    | .98   |      |
| Winnsboro         |               | .80  |      |      |      |      |     |      | .45  | .06 |      | .20  | .35  | 1.50 |      |      |      |      |      |      |      |     |    |    |    |    |    |    |    |     |      | T.     | T.    | 4.37 |
| Winthrop College  | .60           | .08  | T.   | .74  |      |      |     |      | .09  | T.  |      | .42  | .23  | T.   | 1.51 | .59  | .06  | .05  | T.   |      |      |     |    |    |    |    |    |    |    |     |      |        | 10.58 |      |
| Yemassee          | .33           | T.   | .04  | .34  |      | .13  |     |      |      | T.  |      | .21  | .05  | 4.10 | .18  |      | .07  | 1.10 | 3.75 | .20  | .08  |     |    |    |    |    |    |    |    |     | .41  | 1.21   | 5.    |      |

T indicates trace, less than .01 inch.



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5-97  
U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR SEPTEMBER, 1903.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF  
WILLIS L. MOORE,  
CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,  
SECTION DIRECTOR.

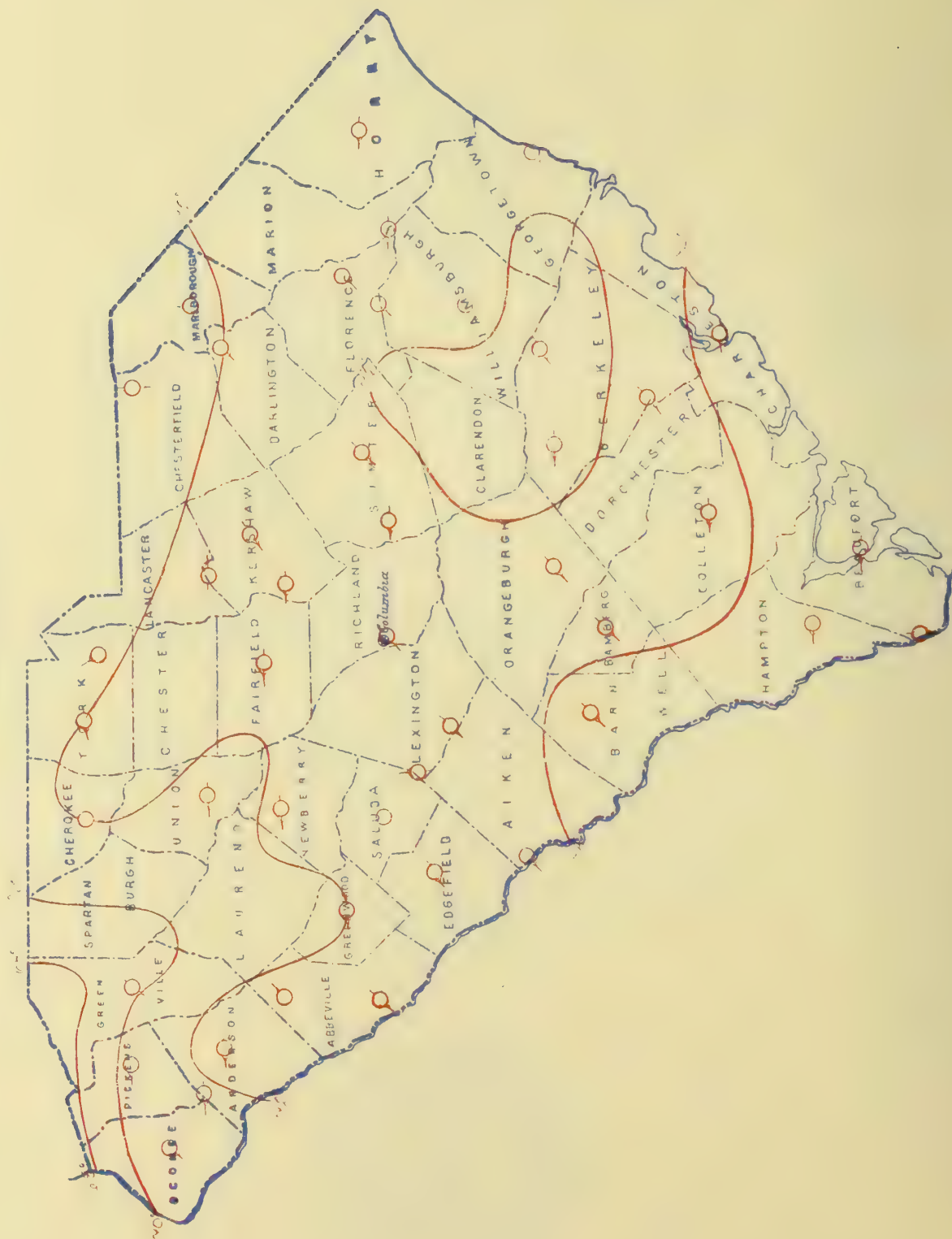


RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1903.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR SEPTEMBER, 1903.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. VI. COLUMBIA, S. C., SEPTEMBER, 1903.

No. 9.

## PROGRESS OF FARMWORK.

The weather during September was exceeding favorable for harvesting operations, having been generally dry, cool, and with an unusually high percentage of sunshine. The mean temperature was below normal owing to cool nights. These conditions were adverse on growing and maturing crops, and also hindered the progress of preparing the lands for fall seeding, the ground having been too dry to plow, although when, about the middle of the month a general rain occurred, seeding operations were pushed and some oats, rye and barley were sown. The last two are sown for winter and spring pasturage, rather than for their grain.

In the August number of the Monthly Report it was stated that general deterioration of cotton had begun. This continued during the first half of September, and until the fruiting season had ended, which ordinarily is about the 10th or 15th of September, for bolls put on later than those dates seldom reach maturity, owing to the occurrence of frost before the bolls have ripened. The September fruitage, this year, was unusually small. Rust continued to spread, and shedding prevailed until both were checked by the rains of the 15th and 16th, but by that time nearly all cotton on sandy lands was leafless and practically dead. Picking made rapid progress in the eastern counties, under exceptionally fine weather for the work, and kept pace with the opening bolls, although, owing to the dry weather many bolls opened prematurely. Reports are common that the lint is short, due, no doubt, to so much premature opening. In the western counties, where cotton is unusually late, opening of bolls was slow, and picking had made but little progress by the close of the month. The crop as a whole promised poor yields. Blight developed on sea-island cotton, but otherwise this variety looked as promising as usual, and late in the month continued to fruit, or put on a top crop.

Early corn was housed in excellent condition, and the yields were somewhat larger than previously estimated; late corn was permanently injured by the hot weather in August, and is a poor crop. Large quantities of hay were secured in fine condition. The forage crops generally are exceptionally

abundant. Rice harvest was nearly finished, and the grain saved without injury from the weather, but the yields are unsatisfactory. Minor crops suffered for rain, although sweet potatoes are a good crop. Truck planting was somewhat retarded by the dry weather.

Barometer and Wind Table for September, 1903.

| STATIONS.              | BAROMETER |          |       |         |       | WIND            |                 |                   |        |            |
|------------------------|-----------|----------|-------|---------|-------|-----------------|-----------------|-------------------|--------|------------|
|                        | Mean.     | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. | Miles. | Direction. |
| Augusta, Ga. ....      | 30.10     | 30.39    | 30    | 29.86   | 24    | 4,754           | 6.6             | 48                | nw.    | 1          |
| Charleston, S. C. .... | 30.10     | 30.37    | 30    | 29.84   | 24    | 4,754           | 12.5            | 56                | se.    | 12         |
| Charlotte, N. C. ....  | 30.15     | 30.46    | 30    | 29.85   | 24    | 4,754           | 5.3             | 23                | ne.    | 9          |
| Columbia, S. C. ....   | 30.12     | 30.44    | 30    | 29.85   | 24    | 5,742           | 8.0             | 29                | se.    | 12         |
| Savannah, Ga. ....     | 30.09     | 30.34    | 30    | 29.86   | 23    | 5,494           | 7.5             | 27                | sw.    | 16         |
| Wilmington, N. C. .... | 30.09     | 30.42    | 30    | 29.76   | 24    | 5,444           | 7.6             | 26                | s.     | 16         |
| Averages. ....         | 30.11     | 30.40    | 30    | 29.84   | 24    | 5,757           | 8.0             | 48                | nw.    | 3          |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for September, 1903, was 72.7°, which is 1.5° below normal. The highest local mean was 75.8° at Beaufort; the lowest 68.3° at Greenville. The highest maximum was 100° at Anderson on the 6th, Clemson College and Gaffney on the 5th and 6th; the lowest minimum was 41° at Seivern on the 29th, making the State range 59°. The greatest local monthly range was 58° at Gaffney, the least was 26° at Charleston. The mean of the daily maximum temperatures was 82.9°, of the daily minimum temperatures 62.5°.

## Precipitation, in Inches.

The precipitation averaged 3.62 inches, which is 0.38 below normal. The greatest local monthly amount was 9.43 at Yemassee, the least 0.60 at Due West. The greatest 24-hourly fall was 5.50 at Gillisonville on the 15th. The average number of days with rain was 5, ranging from 1 at Bennettsville to 10 at Beaufort, Charleston, Walterboro and Yemassee.

Excessive Precipitation.—Allendale, 14th, 2.43 in 14 hrs.; Batesburg, 17th, 2.00 in 17 hrs.; Beaufort, 15th, 3.05 in 24 hrs.; Blackville, 16th, 1.83 in 19 hrs.; Cheraw, 1st, 3.75 in 4 hrs.; Conway, 17th, 2.61 in 14 hrs.; Florence, 2nd, 2.49 in 3 hrs. 30 mins.; Heath Springs, 16th, 2.65 in 23 hrs.; Liberty, 8th, 0.74 in 30 mins.; Lugoff, 16th, 2.20 in 18 hrs.; Stateburg, 16th, 4.60 in 22 hrs. 50 mins.; Walhalla, 9th, 2.55 in 3 hrs.

Hail.—None.

Weather.—The average number of clear days was 17, of partly cloudy 7, and of cloudy 6.

Winds.—The prevailing direction of the wind was from the northeast at 21 stations, from the east at 18, from the north at 6, from the south at 3, from the southeast and west at 2 each, and from the southwest at 1.

High Winds.—Charleston, 12th; Liberty, 17th, 27th; Summerville, 12, 13, 15, 16; Sumter, 16, 17.



## MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston, 12, 13, 16, 23, 24, 30.

Lunar Halos.—Stateburg, 13.

Dense Fog.—Charleston, 2, 26, 27; Cheraw (1) 1; Clemson College, 28, 29; Edisto, 11, 19; Little Mountain, 8; Lugoff, 30; Seivern, 8; Stateburg, 5; Summerville, 26, 27.

Thunderstorms.—Allendale, 8, 11; Beaufort, 1, 2, 3, 13, 14, 15, 16, 17; Blackville, 1, 13, 16; Bowman, 16, 17; Cheraw (2), 1; Gillisonville, 1, 2, 3, 13, 14, 15, 16, 17, 25; Liberty, 8, 9; Lugoff, 1; Santuc, 8, 16; Stateburg, 1, 16, 17; Summerville, 1, 3, 15, 16; Trenton, 1, 2, 3, 7; Walterboro, 25; Yorkville, 9.

Arranged by dates it is found that 43 thunderstorms were reported, and that they occurred on dates as follows: 1st, 8; 2nd, 3; 3rd, 4; 7th, 1; 8th, 3; 9th, 2; 11th, 1; 13th, 3; 14th, 2; 15th, 3; 16th, 7; 17th, 4; 25th, 2.

In addition to the above, Charleston had thunderstorms on 1, 2, 3, 15, 16, 17; Columbia, 1, 17.

## REMARKS BY OBSERVERS.

Allendale.—Hay nearly all secured, with crop fairly large. An average corn crop was gathered during the month. Cotton was picked rapidly and marketed freely.—R. D. Peeples.

Batesburg.—Weather was very favorable for haying. Cotton opened slowly, and the crop will not be as large as was expected.—E. J. Hite.

Beaufort.—Mean temperature was  $1.5^{\circ}$  below normal; precipitation 0.92 above normal, nearly all of the rainfall occurred in three days, about the middle of the month. The ground was quite dry at its close. Cotton picking made rapid progress, and will be finished early in October, on many fields.—S. M. Benton.

Blackville.—Monthly mean temperature  $1.1^{\circ}$  below, and precipitation 0.01 inch below normal.—G. D. C. Lange.

Bowman.—The weather was unusually fine for making hay, after the 17th, and large quantities were saved in fine condition. Not over half an average cotton crop is indicated for this section.—B. O. Evans.

Gillisonville.—Month dry, with warm days and cool nights. Very favorable for harvesting operations. Cotton continued to fail throughout the month, and there is no prospect for a "top crop." The corn crop is below an average. Large quantities of hay secured in fine condition. Minor crops and gardens were suffering for rain at the close

of the month.—Sam P. Saltus.

Heath Springs.—Fine weather for harvesting all crops. Cotton is not as good as previously indicated. The pea crop is poor. Sweet potatoes are good.—J. A. Weaner.

Liberty.—Late crops are suffering for rain at the close of the month. Cotton shedded its leaves and some fruit; early cotton promises to yield from half to two-thirds of a crop; late cotton is not as good, and will be under half an average crop.—Jno. T. Boggs.

Longshore.—Very dry month. Crops were suffering from drought at its close.—W. G. Peterson.

Santuc.—The latter part of the month was cool for September, and was dry. Lands dried rapidly and retarded fall plowing. It is seldom that the weather remains clear for as long a period as it did during the last half of the month. Fall crops are not doing well.—E. W. Jeter.

Society Hill.—Cotton deteriorated during the month. Yield of corn promises well. No loss from freshet. Peas are late. Pea-vine hay good and abundant. Sweet potatoes fine.—Maj. J. J. Lucas.

Stateburg.—Four-fifths of the month's rainfall fell in one day, the 16th, with some damage to crops from floods and washing. Otherwise the weather conditions were as favorable as could be desired for picking cotton, making hay, and harvesting of other ripening crops, but for late growing crops, gardens and pastures, rain is needed. All migratory summer birds have disappeared, except chimney swallows that never leave until after the first heavy frost. Much of the cotton on sandy soils has wilted, and is dying, and will be picked during October.—W. W. Anderson, M. D.

Summerville.—Thunderstorms on 1st and 16th. High winds and rain on 12th, 13th, 15th and 16th. Dense fog from early morning until 9 a. m. on 26th. 21 days were without rain.—Miss L. R. Gadsden.

Trenton.—Precipitation 0.46 inch less than the normal for September, and 0.13 less than the average for the first nine months of the year. There is a general complaint that cotton and peas are short crops.—C. A. Long.

Errata.—In the August, 1903, Monthly Report, on page 6 the mean maximum temperature at Greenwood  $88.7^{\circ}$ , should be  $89.0^{\circ}$ ; on page 5, the mean temperature at Greenwood  $80.2^{\circ}$ , should be  $80.4^{\circ}$ .



CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1903.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         | Precipitation—in inches. |                       |        |                            | Sky.                  |                          |                    |                    | Observer. |                            |                     |                               |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|--------------------------|-----------------------|--------|----------------------------|-----------------------|--------------------------|--------------------|--------------------|-----------|----------------------------|---------------------|-------------------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date.                    | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall—centimet. | Number rainy days. | Number clear days. |           | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. |
| Aiken                                 | Aiken        | 565             | 2                       |                                    |                            |          |       |         |                          |                       |        |                            |                       |                          |                    |                    |           |                            |                     | I. M. Coward                  |
| Allendale                             | Barnwell     | 186             | 15                      | 74.8                               | -0.5                       | 96       | 2     | 55      | 20                       | 28                    | 6.19   | +1.93                      | 2.96                  |                          | 4                  | 20                 | 2         | 8                          |                     | R. D. Peoples                 |
| Anderson                              | Anderson     | 764             | 2                       | 73.9                               | -2.0                       | 100      | 6     | 49      | *18                      | 36                    | 0.90   | -2.80                      | 0.55                  |                          | 2                  | 23                 | 8         | 2                          | e.                  | R. B. Denn                    |
| Augusta, Ga.                          | Richmond     | 134             | 32                      | 73.8                               | -0.6                       | 94       | 6     | 54      | 18                       | 28                    | 4.48   | +0.55                      | 1.32                  |                          | 7                  | 19                 | 8         | 3                          | ne.                 | Weather Bureau.               |
| Barksdale                             | Laurens      | 780             | 2                       |                                    |                            |          |       |         |                          |                       |        |                            |                       |                          |                    |                    |           |                            |                     | E. V. Garrett.                |
| Batesburg                             | Lexington    | 656             | 15                      | 71.4                               | -2.6                       | 95       | 6     | 45      | 30                       | 38                    | 4.26   | 0                          | 2.00                  |                          | 4                  | 20                 | 4         | 6                          | w                   | E. J. Hite.                   |
| Beaufort                              | Beaufort     | 28              | 17                      | 75.8                               | -1.4                       | 94       | 6     | 59      | *10                      | 23                    | 6.26   | +0.92                      | 3.05                  |                          | 10                 | 12                 | 12        | 6                          | e.                  | S. M. Benton                  |
| Bennettsville                         | Marlboro     | 2               | 2                       | 75.0                               |                            | 94       | 6     | 45      | 30                       | 36                    | 1.70   | -0.32                      | 1.70                  |                          | 1                  | 26                 | 1         | 3                          | s.                  | Jno. L. McCall                |
| Blackville                            | Barnwell     | 296             | 15                      | 74.2                               | -1.0                       | 97       | 6     | 50      | 30                       | 32                    | 3.97   | -0.01                      | 1.83                  |                          | 5                  | 18                 | 9         | 3                          | ne.                 | G. D. C. Lange.               |
| Bowman                                | Orangeburg   | 160             | 2                       | 73.4                               |                            | 94       | 6     | 52      | 29                       | 29                    | 5.04   |                            | 2.40                  |                          | 9                  | 18                 | 9         | 3                          | ne.                 | B. O. Evans.                  |
| Calhoun Falls                         | Abbeville    | 508             | 10                      |                                    |                            |          |       |         |                          |                       | 2.19   | -1.85                      | 0.84                  |                          | 3                  | 27                 | 0         | 3                          | ne.                 | P. J. Pfeiffer.               |
| Camden                                | Kershaw      | 222             | 37                      |                                    |                            |          |       |         |                          |                       | 4.21   | +0.32                      | 1.72                  |                          | 5                  | 16                 | 6         | 8                          | e.                  | H. G. Carrison.               |
| Charleston                            | Charleston   | 48              | 34                      | 75.1                               | -0.9                       | 87       | 5     | 61      | 20                       | 19                    | 2.36   | -4.23                      | 0.96                  |                          | 10                 | 7                  | 18        | 5                          | e.                  | Weather Bureau.               |
| Charlotte, N. C.                      | Mecklenburg  | 868             | 25                      | 70.5                               | -0.6                       | 90       | 5     | 49      | 19                       | 24                    | 3.29   | -0.08                      | 2.91                  |                          | 4                  | 14                 | 11        | 5                          | ne.                 | Weather Bureau.               |
| Cheraw (1)                            | Chesterfield | 144             | 15                      | 70.8                               | -2.8                       | 90       | 6     | 45      | 30                       | 30                    | 5.07   | +1.27                      | 3.73                  |                          | 4                  | 13                 | 6         | 11                         | n.                  | W. R. Godfrey.                |
| Cheraw (2)                            |              | 144             | 10                      |                                    |                            |          |       |         |                          |                       | 5.12   | +1.10                      | 3.75                  |                          | 5                  | 15                 | 8         | 7                          | n.                  | Jno. H. Powe.                 |
| Clarks Hill                           | Edgefield    | 456             | 1                       | 73.9                               |                            | 98       | 6     | 50      | 20                       | 32                    | 3.28   | -0.09                      |                       |                          | 6                  | 14                 | 8         | 8                          |                     | Wm. S. Middleton.             |
| Clemson College                       | Oconee       | 850             | 12                      | 72.6                               | -0.7                       | 100      | *5    | 44      | *19                      | 41                    | 1.88   | -2.05                      | 0.56                  |                          | 5                  | 15                 | 12        | 3                          | e.                  | Prof. C. C. Newman.           |
| Columbia                              | Richland     | 351             | 16                      | 72.8                               | -2.2                       | 94       | 6     | 53      | 30                       | 26                    | 2.68   | -1.44                      | 2.22                  |                          | 3                  | 13                 | 12        | 5                          | ne.                 | Central Office.               |
| Conway                                | Horry        | 25              | 12                      | 72.6                               |                            | 93       | 6     | 49      | 30                       | 27                    | 5.75   | +2.13                      | 2.60                  |                          | 5                  | 15                 | 7         | 8                          | e.                  | P. Quattlebaum.               |
| *Darlington                           | Darlington   | 175             | 8                       | 73.2                               |                            | 95       | 6     | 44      | 30                       | 37                    | 1.93   | -0.84                      | 0.86                  |                          | 3                  | 21                 | 5         | 4                          |                     | E. R. Melver.                 |
| Due West                              | Abbeville    | 710             | 2                       | 72.4                               |                            | 93       | 6     | 50      | *18                      | 26                    | 0.60   |                            | 0.31                  |                          | 2                  | 28                 | 1         | 1                          | sw.                 | Rev. O. Y. Bonner.            |
| Edisto                                | Bamberg      | 127             | 10                      |                                    |                            |          |       |         |                          |                       | 3.47   | +0.19                      | 1.40                  |                          | 6                  | 13                 | 6         | 11                         | ne.                 | J. L. Padgett.                |
| Ellingham                             | Florence     | 106             | 11                      |                                    |                            |          |       |         |                          |                       | 3.13   | -0.27                      | 0.98                  |                          | 4                  | 16                 | 6         | 8                          | ne.                 | H. B. McCall.                 |
| Florence                              | Florence     | 136             | 15                      | 72.2                               | -2.5                       | 94       | 6     | 47      | 30                       | 35                    | 4.30   | +0.62                      | 2.49                  |                          | 5                  | 17                 | 7         | 6                          | ne.                 | Howell DeBerry.               |
| Gaffney                               | Cherokee     | 893             | 7                       | 72.2                               |                            | 100      | *5    | 42      | 19                       | 40                    | 0.85   | -3.07                      | 0.60                  |                          | 3                  | 16                 | 4         | 10                         | n.                  | B. F. Camp.                   |
| Georgetown                            | Georgetown   | 12              | 10                      | 72.4                               | -3.4                       | 92       | 5     | 54      | 30                       | 22                    | 2.50   | -0.54                      | 2.00                  |                          | 2                  | 27                 | 1         | 2                          | ne.                 | W. T. Turbeville.             |
| Gillisonville                         | Hampton      | 50              | 8                       | 74.4                               | -1.7                       | 93       | 6     | 52      | 23                       | 28                    | 9.39   | +6.60                      | 5.50                  |                          | 5                  | 14                 | 7         | 9                          | e.                  | Sam P. Salts.                 |
| Greenville                            | Greenville   | 989             | 11                      | 68.3                               | -3.3                       | 90       | 6     | 44      | 30                       | 30                    | 2.16   | -1.91                      | 0.87                  |                          | 5                  | 19                 | 2         | 9                          | ne.                 | Mrs. S. A. Crittenden         |
| Greenwood                             | Greenwood    | 671             | 15                      | 71.8                               | -1.7                       | 96       | 7     | 48      | 29                       | 27                    | 1.44   | -3.12                      | 0.66                  |                          | 3                  | 18                 | 2         | 10                         | e.                  | M. M. Calhoun.                |
| Heath Springs                         | Lancaster    | 2               | 2                       | 72.4                               |                            | 96       | *6    | 13      | 30                       | 32                    | 2.81   |                            | 2.65                  |                          | 3                  | 11                 | 15        | 4                          | w.                  | J. A. Weaver.                 |
| Kingstree (1)                         | Williamsburg | 54              | 15                      | 73.4                               | -1.9                       | 90       | *5    | 54      | *20                      | 26                    | 3.42   | -0.66                      | 1.14                  |                          | 6                  | 19                 | 4         | 7                          |                     | W. H. Edwards.                |
| Kingstree (2)                         |              | 54              | 9                       |                                    |                            |          |       |         |                          |                       | 3.46   | +0.21                      | 1.18                  |                          | 6                  | 19                 | 5         | 6                          | ne.                 | W. H. Matthews.               |
| Liberty                               | Pickens      | 900             | 9                       | 71.2                               | -2.0                       | 95       | 6     | 46      | 18                       | 38                    | 2.51   | -3.14                      | 1.25                  |                          | 5                  | 23                 | 4         | 3                          | e.                  | Jno. T. Boggs.                |
| *Little Mountain                      | Newberry     | 711             | 10                      | 72.4                               | -3.5                       | 96       | 6     | 49      | 20                       | 28                    | 1.79   | -1.71                      | 1.53                  |                          | 3                  | 16                 | 9         | 5                          | e.                  | John M. Sease, M. D.          |
| *Longshore                            | Newberry     | 530             | 10                      | 73.2                               | -0.7                       | 97       | 6     | 46      | 30                       | 34                    | 1.10   | -2.54                      | 0.78                  |                          | 2                  | 18                 | 5         | 7                          | e.                  | W. G. Peterson.               |
| Logoff                                | Kershaw      | 168             | 2                       | 72.6                               |                            | 93       | 6     | 52      | *21                      | 29                    | 4.35   |                            | 2.20                  |                          | 4                  | 16                 | 6         | 8                          | se.                 | W. J. Burdell, M. D.          |
| *Pinopolis                            | Berkeley     | 54              | 10                      |                                    |                            |          |       |         |                          |                       |        |                            |                       |                          |                    |                    |           |                            |                     | E. P. Ravenel.                |
| St. Georges                           | Dorchester   | 109             | 15                      | 73.6                               | -1.3                       | 91       | 6     | 55      | 29                       | 23                    | 2.96   | -2.29                      | 1.40                  |                          | 5                  | 17                 | 5         | 8                          |                     | W. B. Raysor.                 |
| St. Matthews                          | Orangeburg   | 269             | 15                      | 72.8                               | -2.3                       | 88       | 5     | 55      | 30                       | 20                    | 3.00   | -0.59                      | 1.10                  |                          | 4                  | 16                 | 6         | 8                          |                     | J. S. Warramaker.             |
| St. Stephens                          | Berkeley     | 73              | 11                      |                                    |                            |          |       |         |                          |                       | 4.76   | +1.28                      | 2.00                  |                          | 6                  | 14                 | 4         | 12                         | n.                  | C. T. Shuler.                 |
| Saluda                                | Saluda       | 536             | 2                       | 72.8                               |                            | 98       | 6     | 43      | 30                       | 37                    | 2.19   |                            | 1.15                  |                          | 6                  | 20                 | 3         | 7                          | n.                  | Alvin Etheridge.              |
| Santee                                | Union        | 512             | 10                      | 71.2                               | -2.0                       | 95       | 6     | 42      | 30                       | 35                    | 4.86   | +1.46                      | 1.90                  |                          | 6                  | 17                 | 9         | 4                          | e.                  | E. W. Jeter.                  |
| Savannah, Ga.                         | Chatham      | 71              | 34                      | 75.3                               | -0.5                       | 93       | 6     | 59      | 23                       | 25                    | 8.45   | +2.33                      | 2.27                  |                          | 10                 | 11                 | 11        | 8                          | n.                  | Weather Bureau.               |
| Severn                                | Aiken        | 482             | 2                       | 72.1                               | -4.7                       | 96       | 6     | 41      | 29                       | 41                    | 2.07   | -0.94                      | 1.90                  |                          | 4                  | 21                 | 7         | 2                          | ne.                 | J. F. Lyles.                  |
| Smiths Mills                          | Williamsburg | 62              | 8                       |                                    |                            |          |       |         |                          |                       | 3.04   | -0.30                      | 1.15                  |                          | 6                  | 14                 | 3         | 13                         | e.                  | H. van Keuren.                |
| Society Hill                          | Darlington   | 192             | 12                      | 71.8                               | -1.4                       | 87       | 6     | 49      | 29                       | 24                    | 1.77   | -3.25                      | 0.61                  |                          | 3                  | 21                 | 4         | 5                          | ne.                 | J. J. Lucas.                  |
| Spartanburg                           | Spartanburg  | 875             | 12                      | 71.0                               | -1.6                       | 94       | 6     | 45      | 29                       | 31                    | 2.25   | -1.92                      | 0.75                  |                          | 6                  | 16                 | 2         | 12                         |                     | F. P. Robinson.               |
| Stateburg                             | Sumter       | 500             | 23                      | 73.0                               | -0.7                       | 90       | 6     | 51      | 29                       | 26                    | 4.79   | +1.62                      | 4.60                  |                          | 4                  | 15                 | 8         | 7                          | e.                  | W. W. Anderson, M. D.         |
| Summerville                           | Dorchester   | 75              | 6                       | 72.3                               | -2.7                       | 89       | 9     | 55      | *22                      | 21                    | 4.75   | +1.61                      | 1.87                  |                          | 8                  | 15                 | 8         | 7                          | ne.                 | Miss L. R. Gadsden.           |
| Sumter                                | Sumter       | 169             | 2                       | 72.8                               |                            | 96       | 6     | 45      | 30                       | 34                    | 4.82   |                            | 3.10                  |                          | 4                  | 18                 | 8         | 4                          | ne.                 | F. Prescott Bullock.          |
| Temperance                            | Marion       | 100             | 5                       |                                    |                            |          |       |         |                          |                       |        |                            |                       |                          |                    |                    |           |                            |                     | J. R. Reaves.                 |
| *Trenton                              | Edgefield    | 620             | 10                      | 72.6                               | -4.4                       | 96       | 7     | 51      | *19                      | 30                    | 3.30   | -0.46                      | 1.31                  |                          | 5                  | 20                 | 6         | 4                          | s.                  | C. A. Long.                   |
| *Trial                                | Berkeley     | 85              | 17                      | 71.0                               | -2.5                       | 89       | 6     | 49      | 30                       | 29                    | 3.17   | -0.80                      | 1.12                  |                          | 7                  | 10                 | 14        | 6                          | e.                  | Etsell Gaillard.              |
| Walhalla                              | Oconee       | 1061            | 13                      | 70.3                               | -0.1                       | 94       | *5    | 44      | 18                       | 33                    | 5.69   | +0.91                      | 2.55                  |                          | 6                  | 22                 | 3         | 5                          | ne.                 | J. D. Isbell.                 |
| Walterboro                            |              |                 |                         | 73.6                               |                            | 91       | 6     | 55      | 23                       | 25                    | 7.42   |                            | 3.13                  |                          | 10                 | 13                 | 10        | 7                          | e.                  | J. A. Westerberg.             |
| Wilmington, N. C.                     | New Hanover  | 52              | 34                      | 72.2                               | -1.4                       | 90       | 6     | 53      | 30                       | 25                    | 1.16   | -5.26                      | 0.40                  |                          | 6                  | 14                 | 8         | 8                          | ne.                 | Weather Bureau.               |
| Winnsboro                             | Fairfield    | 545             | 14                      | 73.2                               | +0.3                       | 92       | 6     | 50      | *29                      | 26                    | 2.03   | 1.80                       | 1.23                  |                          | 2                  | 23                 | 5         | 2                          | e.                  | John W. Seigler.              |
| Winthrop College                      | York         | 690             | 4                       | 71.5                               | -1.7                       | 93       | 6     | 46      | 29                       | 29                    | 3.51   | -0.61                      | 2.60                  |                          | 3                  | 16                 | 13        | 1                          | se.                 | Geo. B. Green.                |
| Yemassee                              | Beaufort     | 23              | 8                       | 74.0                               | -2.5                       | 93       | 6     | 57      | *22                      | 26                    | 9.43   | +6.41                      | 2.59                  |                          | 10                 | 19                 | 3         | 8                          |                     | J. G. Hutson.                 |
| *Yorkville                            | York         | 650             | 15                      | 72.1                               | -1.5                       | 92       | *5    | 49      | 29                       | 28                    | 2.97   | -1.41                      | 1.29                  |                          | 4                  | 9                  | 17        | 4                          | e.                  | J. R. Schorb.                 |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 72.7                               | -1.5                       | 100      | *5    | 41      | 29                       | 41                    | 3.62   | -0.38                      | 5.50                  |                          | 5                  | 17                 | 7         | 6                          | ne.                 |                               |

NOTE.—All records are used in determining State (or district) means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.



a indicates 1 day missing, b 2 days, etc.

[illegible]



# TOTAL PRECIPITATION FOR SEPTEMBER, 1903.





[illegible]

T indicates trace, less than .01 inch.



051-05  
1903

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR OCTOBER, 1903.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

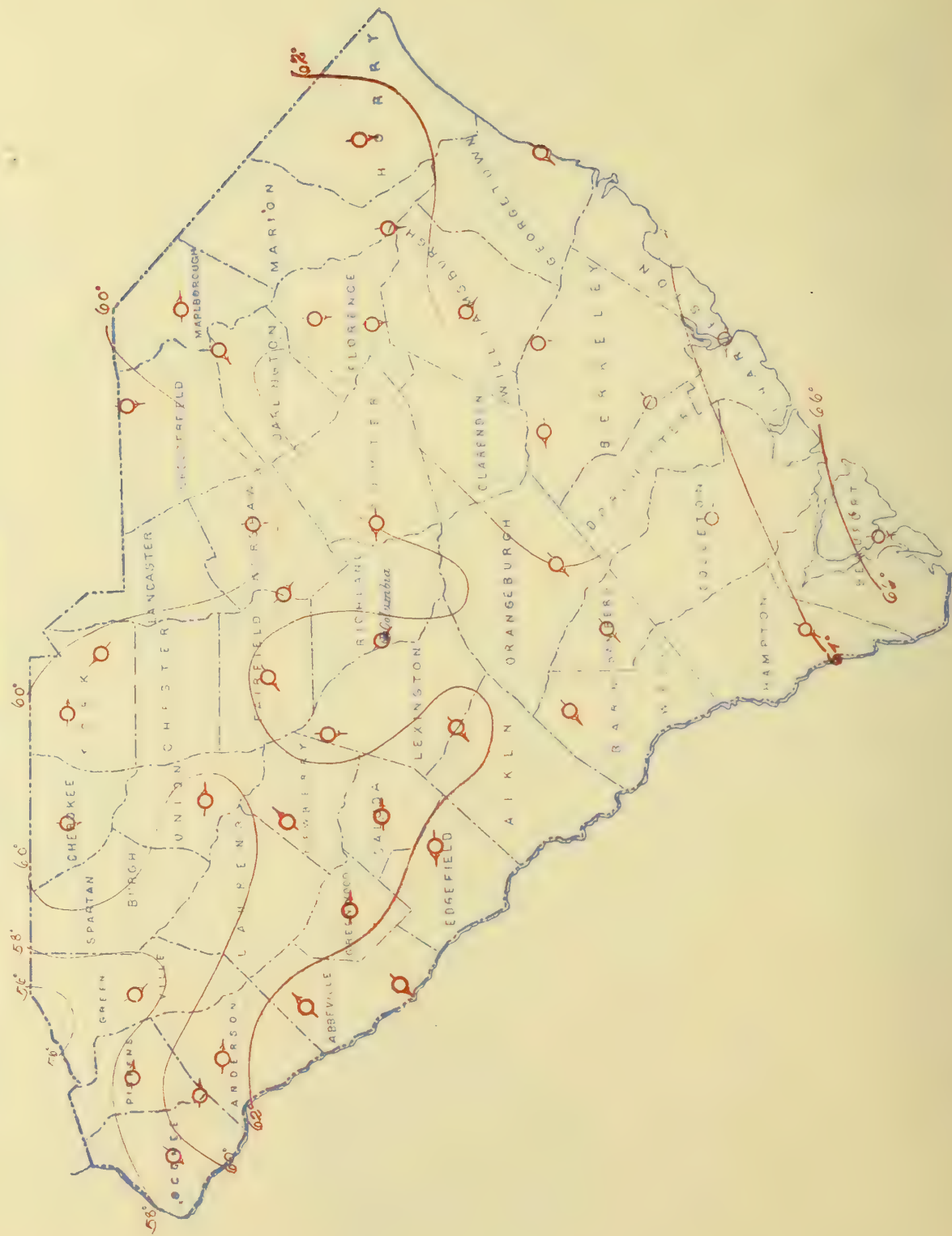


RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1903.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR OCTOBER, 1963.

Arrows ally with the wind.





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. VI. COLUMBIA, S. C., OCTOBER, 1903.

No. 10.

## PROGRESS OF FARMWORK.

The month was favorable for harvesting operations, but was unfavorable for growth of vegetation, and for seeding fall grains. The first half of the month was slightly warmer than usual, and the last half was cooler, while the monthly mean temperature was more than one degree lower than the normal. The first general light frost occurred on the 19th, and covered all but the coast sections of the State. Light to heavy, to killing frosts occurred over the entire State from 25th to 29th, inclusive. This is about one month earlier than the date of the first killing frost in 1902, and about twelve days earlier than the average date of first killing frost. These frosts brought to a close the growing season, except along the immediate coast where the frosts were too light to materially injure vegetation.

The precipitation was slightly below normal. There were three periods of general rains, as follows, from the 6th to 8th, the 16th to 18th, and on the 24th, the latter largely confined to the eastern and northern counties. The most of the month's precipitation occurred on the 16th-17th. There was a decided deficiency over the central and western sections, and an excess at places in the eastern counties.

Farming operations made rapid progress, under exceptionally favorable weather conditions, so that practically all crops ripened and were gathered.

Cotton continued to open freely, and nearly the whole crop that had not been gathered in September was picked. This applies to all but the western counties where there was considerable late cotton. In that section some unopened bolls were destroyed by the frosts. Picking kept pace with the opening, and the lint was secured in fine condition. The yields were disappointing, and were below those for last year, per acre. Frosts injured late sea-island cotton to some extent.

The corn crop was housed, and the yields were uniformly larger than previously indicated. Pea-vine and other hay was gathered in large quantities, and in excellent condition. The sweet potato crop was uniformly good, but other root crops were short. Rice harvest was finished, with favorable weather for the work. Fall seeding made only fair progress,

as the soil was too dry over a large portion of the State for preparation of lands. A considerable acreage of oats was sown, and but very little wheat. Fall truck made excellent growth, and shipments were begun toward the close of the month.

Barometer and Wind Table for October, 1903.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.10      | 30.25    | 27    | 29.70   | 10    | 3.566           | 4.8             | 40                | ne.        | 24    |
| Charleston.       | 30.08      | 30.42    | 21    | 29.65   | 10    | 2.430           | 10.0            | 12                | ne.        | 25    |
| Charlotte, N. C.  | 30.12      | 30.48    | 21    | 29.75   | 17    | 1.155           | 5.6             | 26                | ne.        | 19    |
| Columbia.         | 30.09      | 30.47    | 21    | 29.71   | 10    | 6.560           | 8.8             | 46                | n.         | 16    |
| Savannah, Ga.     | 30.07      | 30.39    | 27    | 29.60   | 10    | 5.088           | 6.8             | 40                | n.         | 10    |
| Wilmington, N. C. | 30.05      | 30.43    | 21    | 29.49   | 10    | 5.521           | 7.5             | 35                | nw         | 9     |
| Averages.         | 30.08      | 30.48    | 27    | 29.49   | 10    | 5.388           | 7.2             | 46                | n.         | 19    |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for October, 1903, was 62.0°, which is 1.2° below normal. The highest local mean was 66.5° at Beaufort; the lowest 57.6° at Greenville. The highest maximum was 93° at Anderson on the 2nd, the lowest minimum was 25° at Clemson College on the 25th\*, making the State range 68°. The greatest local monthly range was 67° at Clemson College, the least was 43° at Charleston. The mean of the daily maximum temperatures was 74.3°, of the daily minimum temperatures 49.6°.

Ice.—Thin ice formed at the following places on the dates given: 25th, Blackville, Longshore, Trenton; 27th, Lugoff, Seivern, Summerville; 28th, Bennettsville, Darlington, Gaffney, Gillisonville, Seivern; 29th, Gillisonville.

Frosts.—The first light frost of the season was noted as follows: 18th, Seivern, Trial; 19th, Augusta, Ga., Bennettsville, Bowman, Camden, Charlotte, N. C., Cheraw, Clarks Hill, Clemson College, Conway, Darlington, Effingham, Gaffney, Greenville, Little Mountain, Longshore, Lugoff, St. Stephens, Santuc, Saluda, Smiths Mills, Society Hill, Wilmington, N. C., Winnsboro; 20th, Columbia, Edisto, Gillisonville, Kingstree, St. George, St. Matthews, Yemassee; 25th, Blackville, Stateburg, Yorkville; 26th, Charleston, Savannah, Ga.; 28th, Walterboro. First heavy frost occurred on the 17th, Trial; 25th, Bowman, Camden, Cheraw, Columbia, Conway, Edisto, Effingham, Gaffney, Kingstree, Lugoff, St. George, St. Matthews, St. Stephens, Saluda, Smiths Mills, Winnsboro, Yemassee; 27th, Bennettsville, Charlotte, N. C., Society Hill, Yorkville; 28th, Blackville, Wilmington, N. C. First killing frost occurred on the 24th, Seivern, Walbala; 25th, Anderson, Augusta, Ga., Batesburg, Clarks Hill, Clemson College, Greenville, Greenwood, Liberty, Little Mountain, Longshore, Santuc, Spartanburg, Trenton; 27th, Darlington, Heath Springs, Lugoff, Summerville, Win-

\*NOTE.—A minimum temperature of 23° was recorded at Seivern on the 27th and 28th, but this is believed to be too low for the locality.—Ed.



throp College; 28th, Bennettsville, Bowman, Cheraw, Conway, Edisto, Effingham, Florence, Gaffney, Gillisonville, Kingstree, St. George, St. Matthews, St. Stephens, Saluda, Smiths Mills, Society Hill, Stateburg, Trial, Yemassee, Yorkville; 29th, Beaufort.

**Precipitation, in Inches.**

The precipitation averaged 2.63 inches, which is 0.25 below normal. The greatest local monthly amount was 4.68 at Darlington, the least 0.86 at Calhoun Falls. The greatest 24-hourly fall was 2.50 at Lugoff on the 8th. The average number of days with rain was 5, ranging from 2 at Calhoun Falls, Due West and Winnsboro to 8 at Santuc.

Hail.—Little Mountain, Yorkville on the 23rd.

Weather.—The average number of clear days was 18, of partly cloudy 6, and of cloudy 7.

Winds.—The prevailing direction of the wind was from the north and west at 12 stations each, from the northeast at 11, from the northwest at 6, from the east at 4, from the southwest at 3, and from the southeast and south at 1 station each.

High Winds.—Bowman, Society Hill, 9, 10, 11; Columbia, 8, 9, 10, 17, 23, 24, 26, 27; Gillisonville, 21; Little Mountain, 9, 10; Saluda, 10; Summerville, 8, 9, 10.

**MISCELLANEOUS PHENOMENA (with dates).**

Lunar Coronæ.—Santuc, 5, 29, 30, 31.

Lunar Halos.—Charleston, 1, 12, 27, 30; Gillisonville, 31; Santuc, 7, 10.

Solar Halos.—Charleston, 1, 7, 13, 14, 22, 28, 30; Stateburg, 1, 23.

Fogs, Dense.—Blackville, Summerville, 5; Bowman, 4, 23; Charleston, 21, 23, 28; Clarks Hill, 6, 7; Columbia, 6, 16, 20, 21, 22; Little Mountain, Society Hill, 5, 6, 16; Longshore, 16; Lugoff, 1, 7, 16, 23; Santuc, 16, 22; Seivern, 5, 6, 12, 16; Stateburg, 4, 5, 12, 22; Yorkville, 4, 6, 7, 8, 16, 22, 23.

Thunderstorms.—Allendale, 9; Beaufort, Blackville, Bowman, 24; Cheraw, Liberty, Society Hill, Winthrop College, Yorkville, 23; Gillisonville, 16, 24; Longshore, 6, 15; Stateburg, 8th; Summerville, 2, 5, 24. The total number of thunderstorms reported was 17, and they occurred on the following dates: One on the 2nd, one on the 5th, one on the 6th, one on the 8th, one on the 9th, one on the 15th, one on the 16th, five on the 23rd, and five on the 24th.

In addition to the above, a thunderstorm occurred at Columbia on the 23rd.

**REMARKS BY OBSERVERS.**

Batesburg.—Frost on the morning of the 25th did much damage, killing late cotton and all other tender vegetation.—E. J. Hite.

Beaufort.—Mean temperature was 1.2° below normal; accumulated deficiency since January 1st is 213°. October precipitation is 1.66 inches less than normal; accumulated excess since January 1st is 14.01 inches. The month was favorable for harvesting. Almost all crops are light; sea-island cotton was hurt by frost.—S. M. Benton.

Bennettsville.—Wild geese were observed flying south on the 23rd.—Jno. L. McCall.

Blackville.—Thin ice formed on 28th. Monthly mean temperature 0.9° below normal; precipitation 1.06 below.—G. D. C. Lange.

Bowman.—There was a killing frost on the 28th, which is much earlier than unusual. Farmers continued to cut and cure hay until grass was killed by frost; large quantities cured in fine condition.—B. O. Evans.

Gillisonville.—The month was mainly pleasant; the days were warm, the nights chilly. Killing frost on the 28th and 29th did but little damage, as crops were nearly harvested. Cotton was gathered in good condition, but the yields will not average over two-thirds of an ordinary crop. No crop except hay will yield a full crop. Fall grain seeding delayed by harvesting operations.—Sam P. Saltus.

Heath Springs.—Crops nearly harvested. Cotton is not as good as was expected; corn yields are better; sweet potatoes are good. Large acreage of oats is being seeded.—J. A. Weaner.

Liberty.—Crop conditions changed but little during the month, owing to the dryness. Some oats and other small grains were sown. The potato and turnip crops are short. Hay crop short, but secured in extra fine condition.—Jno. T. Boggs.

Little Mountain.—The month was an ideal one for gathering all fall crops. At the end of the month cotton was all open and picked with a few exceptions. Not much oats were sown owing to lack of moisture.—Jno. M. Sease, M. D.

Longshore.—Fine month for gathering crops; cotton nearly all picked. The cotton crop is very poor.—W. G. Peterson.

Saluda.—On the 25th a flock of robins was observed flying south. On the 29th a flock of wild geese was observed flying south.—Alvin Etheridge.

Santuc.—Wild ducks observed flying east on the 17th. Flight of robins, going south, observed on the 20th.—E. W. Jeter.

Society Hill.—Ideal weather for harvesting cotton and pea vine hay. Killing frost occurred one month earlier than last year. Cotton crop very short, and it is nearly all gathered. Corn and sweet potatoes are good.—Maj. J. J. Lucas.

Stateburg.—Robins flying southward, observed on 24th. The frosty temperature, continuing from the 25th to 29th, inclusive, though not low enough to cause a decided killing frost, effectually checked the further growth of summer vegetation. Potato vines and cotton plants were nipped and scorched, and only such bolls as are sufficiently advanced toward maturity are likely to open.—W. W. Anderson, M. D.



## CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER, 1903.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature— in degrees Fahrenheit. |                            |          |       |         |       | Precipitation— in inches. |        |                            |                       | Sky.                             |                   |                       |                     | Observers. |                                  |
|---------------------------------------|--------------|-----------------|-------------------------|-------------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------------|-------------------|-----------------------|---------------------|------------|----------------------------------|
|                                       |              |                 |                         | Mean.                               | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total shown by unimproved gauge. | Number fair days. | Number overcast days. | Number cloudy days. |            | Number of days of which no wind. |
| Aiken                                 | Aiken        | 565             | 2                       |                                     |                            |          |       |         |       |                           |        |                            |                       |                                  |                   |                       |                     |            | L. M. Coward                     |
| Allendale                             | Barnwell     | 186             | 15                      | 63.6                                | -0.6                       | 87       | 3     | 35      | *25   | 38                        | 2.21   | -0.26                      | 0.87                  |                                  | 4                 | 22                    | 1                   | 8          | R. B. Boopras.                   |
| Anderson                              | Anderson     | 764             | 2                       | 63.8                                | +3.1                       | 93       | 2     | 29      | 25    | 46                        | 1.48   | -1.56                      | 0.56                  |                                  | 4                 | 23                    | 7                   | 1          | R. B. Deane.                     |
| Augusta, Ga.                          | Richmond     | 131             | 32                      | 62.6                                | -1.1                       | 87       | 2     | 32      | 8     | 35                        | 1.82   | -0.66                      | 1.62                  |                                  | 4                 | 21                    | 4                   | 6          | Weather Bureau.                  |
| Backsdale                             | Laurens      | 780             | 2                       |                                     |                            |          |       |         |       |                           |        |                            |                       |                                  |                   |                       |                     |            | J. T. Garrett.                   |
| Batesburg                             | Lexington    | 656             | 15                      | 60.4                                | -2.7                       | 90       | 2     | 29      | 25    | 48                        | 2.66   | -0.62                      | 1.42                  |                                  | 4                 | 21                    | 2                   | 8          | E. J. Tate.                      |
| Beaufort                              | Beaufort     | 28              | 17                      | 66.5                                | -1.2                       | 86       | 3     | 38      | 29    | 36                        | 1.98   | -1.66                      | 1.59                  |                                  | 6                 | 18                    | 8                   | 5          | S. M. Benson.                    |
| Bennettsville                         | Marlboro     |                 | 2                       | 61.1                                |                            | 90       | 3     | 31      | 28    | 36                        | 3.31   |                            | 1.30                  |                                  | 4                 | 26                    | 3                   | 2          | Jno. L. McCall.                  |
| Blackville                            | Barnwell     | 296             | 15                      | 63.3                                | -0.9                       | 90       | 2     | 30      | 28    | 44                        | 2.16   | -1.06                      | 0.99                  |                                  | 5                 | 17                    | 11                  | 3          | G. D. C. Lange.                  |
| Bowman                                | Orangeburg   | 160             | 2                       | 63.4                                |                            | 89       | 3     | 30      | 28    | 38                        | 3.35   |                            | 1.65                  |                                  | 5                 | 16                    | 9                   | 6          | B. O. Evans.                     |
| Calhoun Falls                         | Abbeville    | 508             | 10                      |                                     |                            |          |       |         |       |                           | 0.86   | -2.95                      | 0.59                  |                                  | 2                 | 27                    | 1                   | 3          | H. J. Pfeiffer.                  |
| Canden                                | Kershaw      | 222             | 37                      |                                     |                            |          |       |         |       |                           | 3.19   | +1.15                      | 1.10                  |                                  | 6                 | 14                    | 5                   | 12         | P. G. Carrison.                  |
| Charleston                            | Charleston   | 48              | 31                      | 65.5                                | -1.2                       | 83       | 3     | 40      | 25    | 25                        | 2.30   | -1.88                      | 1.86                  |                                  | 6                 | 12                    | 13                  | 6          | Weather Bureau.                  |
| Charlotte, N. C.                      | Mecklenburg  | 868             | 25                      | 60.8                                | +0.5                       | 84       | 2     | 31      | 27    | 28                        | 2.53   | -1.14                      | 1.04                  |                                  | 6                 | 15                    | 10                  | 6          | Weather Bureau.                  |
| Cheraw (1)                            | Chesterfield | 114             | 15                      | 59.6                                | -1.6                       | 86       | 2     | 30      | 28    | 39                        | 3.41   | +0.66                      | 1.21                  |                                  | 6                 | 13                    | 6                   | 12         | W. R. Godfrey.                   |
| Cheraw (2)                            |              | 141             | 10                      |                                     |                            |          |       |         |       |                           | 3.14   | +0.09                      | 0.99                  |                                  | 7                 | 14                    | 9                   | 8          | Jno. H. Powe.                    |
| Clarks Hill                           | Edgefield    | 456             | 1                       | 63.7                                |                            | 90       | 2     | 31      | 25    | 35                        | 2.52   |                            | 1.87                  |                                  | 6                 | 15                    | 7                   | 9          | Wm. S. Middleton.                |
| Clemson College                       | Oconee       | 850             | 12                      | 61.2                                | -1.9                       | 82       | 2     | 25      | 25    | 46                        | 1.60   | -1.50                      | 0.69                  |                                  | 4                 | 17                    | 11                  | 3          | Prof. C. C. Newman.              |
| Columbia                              | Richland     | 351             | 16                      | 63.6                                | 0                          | 86       | 2     | 34      | 25    | 28                        | 1.91   | -0.15                      | 1.56                  |                                  | 4                 | 15                    | 9                   | 7          | Central Office.                  |
| Conway                                | Horry        | 25              | 12                      | 61.5                                |                            | 85       | *2    | 29      | 28    | 40                        | 3.31   | +0.75                      | 1.36                  |                                  | 5                 | 20                    | 7                   | 4          | McQ. Quattlebaum.                |
| +Darlington                           | Darlington   | 175             | 8                       | 62.8                                |                            | 91       | 6     | 30      | 28    | 41                        | 4.68   | +1.68                      | 1.66                  |                                  | 6                 | 20                    | 5                   | 6          | E. L. McIver.                    |
| Due West, d                           | Abbeville    | 710             | 2                       | 62.1                                |                            | 87       | 2     | 30      | 25    | 31                        | 0.97   |                            | 0.69                  |                                  | 2                 | 20                    | 6                   | 1          | Rev. O. Y. Bonner.               |
| Edisto                                | Bamberg      | 127             | 10                      |                                     |                            |          |       |         |       |                           | 2.30   | 0.69                       | 1.03                  |                                  | 6                 | 13                    | 4                   | 14         | J. L. Padgett.                   |
| Edlingham                             | Florence     | 106             | 11                      |                                     |                            |          |       |         |       |                           | 3.80   | +1.13                      | 1.60                  |                                  | 5                 | 15                    | 5                   | 11         | H. B. McCall.                    |
| Florence                              | Florence     | 136             | 15                      | 61.2                                | -2.0                       | 89       | 2     | 30      | 28    | 42                        | 4.51   | +1.60                      | 1.92                  |                                  | 5                 | 18                    | 7                   | 6          | Howell DeBerry.                  |
| Gaffney                               | Cherokee     | 893             | 7                       | 61.4                                |                            | 86       | 5     | 28      | 28    | 45                        | 1.50   | +1.44                      | 0.95                  |                                  | 4                 | 15                    | 7                   | 9          | B. F. Camp.                      |
| Georgetown                            | Georgetown   | 12              | 10                      | 61.0                                | -4.2                       | 87       | 9     | 35      | 28    | 39                        | 3.00   | -0.29                      | 1.50                  |                                  | 3                 | 28                    | 0                   | 3          | W. T. Turbeville.                |
| Gillisonville                         | Hampton      | 50              | 8                       | 63.9                                | -2.4                       | 87       | 3     | 32      | *28   | 37                        | 1.84   | -1.96                      | 1.15                  |                                  | 3                 | 22                    | 1                   | 8          | Sam P. Sults.                    |
| Greenville                            | Greenville   | 989             | 11                      | 57.6                                | -3.3                       | 84       | 2     | 27      | *28   | 44                        | 1.39   | -1.38                      | 0.74                  |                                  | 5                 | 18                    | 0                   | 13         | Mrs. S. A. Crittenden.           |
| Greenwood                             | Greenwood    | 671             | 15                      | 60.8                                | -1.5                       | 86       | 2     | 32      | 25    | 36                        | 2.11   | -0.67                      | 0.90                  |                                  | 4                 | 20                    | 0                   | 11         | M. M. Calhoun.                   |
| Heath Springs                         | Lancaster    | 12              | 2                       | 58.4                                |                            | 81       | 14    | 28      | 18    | 42                        | 2.61   |                            | 1.94                  |                                  | 7                 | 18                    | 9                   | 4          | J. A. Weaver.                    |
| Kingstree (1)                         | Williamsburg | 54              | 15                      | 62.2                                | -2.6                       | 85       | *2    | 31      | 28    | 36                        | 3.89   | +1.61                      | 1.20                  |                                  | 7                 | 16                    | 5                   | 10         | W. H. Edwards.                   |
| Kingstree (2)                         |              | 54              | 9                       |                                     |                            |          |       |         |       |                           | 3.60   | +1.24                      | 1.21                  |                                  | 7                 | 16                    | 3                   | 12         | W. H. Matthews.                  |
| Liberty                               | Pickens      | 900             | 9                       | 60.3                                | +0.3                       | 87       | 2     | 27      | 25    | 10                        | 1.66   | 2.00                       | 0.86                  |                                  | 3                 | 20                    | 6                   | 5          | Jno. T. Boggs.                   |
| Little Mountain                       | Newberry     | 711             | 10                      | 62.6                                | -2.4                       | 86       | *3    | 31      | 25    | 34                        | 2.46   | -0.88                      | 2.08                  |                                  | 5                 | 16                    | 5                   | 10         | John M. Sease, M. D.             |
| +Longshore                            | Newberry     | 530             | 10                      | 61.3                                | -1.0                       | 90       | 2     | 29      | 28    | 38                        | 2.39   | -1.04                      | 1.63                  |                                  | 6                 | 15                    | 7                   | 9          | W. G. Peterson.                  |
| Lugoff                                | Kershaw      | 168             | 2                       | 59.3                                |                            | 90       | *1    | 28      | 28    | 44                        | 4.29   |                            | 2.50                  |                                  | 4                 | 23                    | 4                   | 4          | W. J. Burdell, M. D.             |
| Monopolis                             | Berkeley     | 54              | 10                      |                                     |                            |          |       |         |       |                           |        |                            |                       |                                  |                   |                       |                     |            | E. P. Ravenel.                   |
| St. Georges                           | Dorchester   | 109             | 15                      | 61.8                                | -2.3                       | 86       | 3     | 32      | 28    | 33                        | 2.16   | -0.25                      | 0.72                  |                                  | 5                 | 14                    | 7                   | 10         | W. B. Rayson.                    |
| St. Matthews                          | Orangeburg   | 269             | 15                      | 62.0                                | -2.5                       | 84       | *2    | 34      | *25   | 31                        | 2.95   | +0.49                      | 1.00                  |                                  | 6                 | 16                    | 6                   | 9          | J. S. Wainmaker.                 |
| St. Stephens                          | Berkeley     | 73              | 11                      |                                     |                            |          |       |         |       |                           | 4.03   | +1.18                      | 1.55                  |                                  | 7                 | 16                    | 1                   | 14         | C. T. Shuler.                    |
| Saluda                                | Saunder      | 536             | 2                       | 61.7                                |                            | 90       | 2     | 26      | 28    | 41                        | 1.71   |                            | 1.36                  |                                  | 4                 | 24                    | 3                   | 4          | Alvin Etheridge.                 |
| Santee                                | Union        | 512             | 10                      | 50.5                                | -2.2                       | 89       | 2     | 27      | 28    | 41                        | 3.02   | -0.64                      | 1.46                  |                                  | 8                 | 20                    | 6                   | 5          | E. W. Jeter.                     |
| Savannah, Ga.                         | Chatham      | 71              | 34                      | 66.1                                | -0.3                       | 86       | 3     | 38      | 25    | 29                        | 3.21   | -0.38                      | 2.05                  |                                  | 8                 | 15                    | 10                  | 6          | Weather Bureau.                  |
| Seavern, c.                           | Aiken        | 482             | 2                       | 60.2                                | -4.0                       | 91       | 4     | 23      | *27   | 47                        | 1.75   | -2.19                      | 1.51                  |                                  | 3                 | 18                    | 8                   | 2          | J. F. Lyles.                     |
| Smiths Mills                          | Williamsburg | 62              | 8                       |                                     |                            |          |       |         |       |                           | 3.55   | -0.76                      | 1.30                  |                                  | 6                 | 14                    | 7                   | 10         | H. van Keuren.                   |
| Society Hill                          | Darlington   | 102             | 12                      | 60.6                                | -1.2                       | 87       | 3     | 32      | 27    | 31                        | 3.50   | 0                          | 1.55                  |                                  | 6                 | 21                    | 2                   | 8          | J. J. Lucas.                     |
| Spartanburg                           | Spartanburg  | 875             | 12                      | 60.5                                | +0.5                       | 88       | 2     | 28      | 25    | 40                        | 1.05   | 2.03                       | 0.58                  |                                  | 4                 | 21                    | 2                   | 8          | F. P. Robinson.                  |
| Stateburg                             | Sumter       | 500             | 23                      | 63.6                                | +0.1                       | 85       | *2    | 35      | 25    | 32                        | 3.01   | -0.15                      | 1.58                  |                                  | 6                 | 18                    | 2                   | 11         | W. W. Anderson, M. D.            |
| Summerville                           | Dorchester   | 75              | 6                       | 62.4                                | -3.6                       | 81       | 3     | 32      | 27    | 29                        | 3.36   | -2.61                      | 0.77                  |                                  | 7                 | 18                    | 7                   | 6          | Miss L. R. Gadsden.              |
| Sumter                                | Sumter       | 169             | 2                       |                                     |                            |          |       |         |       |                           |        |                            |                       |                                  |                   |                       |                     |            | Chas. S. Kingsmore.              |
| Temperance                            | Macon        | 100             | 5                       |                                     |                            |          |       |         |       |                           |        |                            |                       |                                  |                   |                       |                     |            | J. R. Reaves.                    |
| +Trenton                              | Edgefield    | 620             | 10                      | 62.4                                | -3.6                       | 86       | *2    | 32      | 25    | 35                        | 2.30   | -1.44                      | 1.78                  |                                  | 6                 | 21                    | 6                   | 4          | C. A. Long.                      |
| Triad                                 | Berkeley     | 85              | 17                      | 61.6                                | -1.5                       | 85       | *2    | 29      | 28    | 45                        | 2.97   | -0.27                      | 1.43                  |                                  | 4                 | 18                    | 7                   | 6          | Etsell Gaillard.                 |
| Walhalla                              | Oconee       | 1061            | 13                      | 50.9                                | +0.3                       | 85       | 2     | 28      | 24    | 36                        | 2.35   | -1.05                      | 1.20                  |                                  | 3                 | 24                    | 5                   | 2          | J. D. Isbell.                    |
| Walterboro                            |              |                 |                         | 63.6                                |                            | 86       | 6     | 32      | 28    | 37                        | 2.78   |                            | 1.11                  |                                  | 5                 | 19                    | 0                   | 3          | J. A. Westerberg.                |
| Wilmington, N. C.                     | New Hanover  | 52              | 34                      | 62.3                                | -1.2                       | 84       | 2     | 37      | 28    | 31                        | 2.46   | -1.38                      | 1.39                  |                                  | 6                 | 17                    | 6                   | 8          | Weather Bureau.                  |
| Winnboro                              | Fairfield    | 545             | 14                      | 63.2                                | +1.0                       | 88       | 2     | 31      | 25    | 29                        | 2.24   | -0.34                      | 1.73                  |                                  | 2                 | 18                    | 9                   | 4          | John W. Seigler.                 |
| Winthrop College                      | York         | 690             | 4                       | 61.0                                | -1.1                       | 86       | 2     | 30      | 27    | 33                        | 2.61   | -0.57                      | 1.35                  |                                  | 5                 | 17                    | 13                  | 1          | Geo. B. Green.                   |
| Yemassee                              | Beaufort     | 23              | 8                       | 63.8                                | -2.1                       | 87       | 3     | 34      | 8     | 34                        | 2.19   | -0.53                      | 0.76                  |                                  | 6                 | 16                    | 5                   | 10         | J. G. Hutson.                    |
| Yorkville                             | York         | 660             | 15                      | 63.0                                | +1.0                       | 88       | 2     | 35      | *25   | 34                        | 2.68   | -1.10                      | 1.13                  |                                  | 6                 | 17                    | 8                   | 6          | J. R. Schorb.                    |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 62.0                                | -1.2                       | 93       | 2     | 25      | 25    | 48                        | 2.63   | -0.25                      | 2.50                  |                                  | 5                 | 18                    | 6                   | 7          |                                  |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.

NOTE. — Minimum temperature 23° at Seavern believed to be too low.



STATIONS.

| STATIONS. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Monthly mean. |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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| 82        | 58 | 85 | 60 | 87 | 64 | 81 | 65 | 84 | 62 | 85 | 64 | 86 | 65 | 74 | 58 | 72 | 58 | 75 | 52 | 74 | 54 | 76 | 51 | 80 | 55 | 82 | 58 | 85 | 63 | 75 | 51            | 71   | 53 | 60 | 43 | 76 | 43 | 78 | 50 | 78 | 50 | 48 | 47 | 40 | 77 | 62 | 31 | 72 | 34 | 60 | 32 | 75 | 38 | 68 | 40 | 78 | 44 | 75.3 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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| 83        | 59 | 86 | 61 | 88 | 65 | 82 | 66 | 85 | 63 | 87 | 65 | 87 | 66 | 75 | 59 | 73 | 59 | 76 | 53 | 75 | 55 | 77 | 52 | 81 | 56 | 83 | 59 | 86 | 64 | 76 | 54            | 78   | 54 | 80 | 56 | 79 | 55 | 82 | 59 | 77 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75   | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 | 75 | 59 | 72 | 61 | 80 | 57 | 74 | 58 | 81 | 58 |

a indicates 1 day missing, b 2 days, etc.







## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

OCTOBER, 1903.

| DAILY PRECIPITATION FOR SOUTH CAROLINA, OCTOBER, 1903. |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     |      |      |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      |      |      |
|--|---------------|-----|-----|---|-----|-----|-----|------|------|------|------|-----|----|----|----|-----|------|------|------|-----|----|----|----|----|-----|------|------|------|----|----|----|--------|------|------|------|
| STATIONS.  | Day of Month. |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     |      |      |      |     |    |    |    |    |     |      |      |      |    |    |    | Total. |      |      |      |
|  | 1             | 2   | 3   | 4 | 5   | 6   | 7   | 8    | 9    | 10   | 11   | 12  | 13 | 14 | 15 | 16  | 17   | 18   | 19   | 20  | 21 | 22 | 23 | 24 | 25  | 26   | 27   | 28   | 29 | 30 | 31 |        |      |      |      |
| Aiken  |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     |      | .84  | .85  |     |    |    |    |    |     | .42  | T    |      |    |    |    | T      | 2.24 |      |      |
| Allendale  |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     |      | .56  | .26  |     |    |    |    |    |     |      |      |      |    |    |    | T      | 1.38 |      |      |
| Anderson   |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    | .03 |      | 1.62 |      |     |    |    |    |    |     | T    |      |      |    |    |    | T      | 1.82 |      |      |
| Augusta, Ga.   |               |     |     |   |     |     | T   | T    | .15  |      |      |     |    |    |    |     |      |      |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 2.66 |      |
| Barksdale  |               |     |     |   |     |     |     | .24  |      | .31  |      |     |    |    |    |     | T    | .69  | 1.42 |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 1.98 |      |
| Batesburg  |               |     |     |   |     |     |     | .02  |      |      |      |     |    |    |    |     | .10  | 1.59 |      |     |    |    |    |    | .03 | .22  |      |      |    |    |    |        | .02  | 3.31 |      |
| Beaufort   |               |     |     |   |     |     |     | T    | .04  |      |      |     |    |    |    | T   |      | 1.30 |      |     |    |    |    |    |     | .03  | .07  |      |    |    |    |        |      | 2.16 |      |
| Bennettsville  |               |     |     |   |     |     |     | T    | .12  |      |      |     |    |    |    |     | .99  | .95  |      |     |    |    |    |    |     | .98  |      |      |    |    |    |        | .22  | 3.35 |      |
| Blackville   |               |     |     |   |     |     |     | .20  |      |      |      |     |    |    |    |     | .30  | 1.05 |      |     |    |    |    |    |     |      |      |      |    |    |    |        | 0.86 |      |      |
| Bowman   |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     | .27  | .59  |      |     |    |    |    |    |     |      |      |      |    |    |    |        | 3.49 |      |      |
| Calhoun Falls  |               |     |     |   |     |     |     | T    | .02  | 1.70 |      |     |    |    |    |     | .50  | 1.10 |      |     |    |    |    |    |     |      | .09  | .08  |    |    |    |        |      | 2.30 |      |
| Camden   |               |     |     |   |     |     |     | .03  |      |      | T    | T   |    |    |    |     | .05  | 1.86 | .01  |     |    |    |    |    |     | .74  | .23  |      |    |    |    |        | .07  | 2.53 |      |
| Charleston   |               |     |     |   |     |     | T   | .02  | .43  |      |      |     |    |    |    | T   | T    | 1.04 |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 3.41 |      |
| Charlotte, N. C.                                       |               |     |     |   |     |     |     | T    | .34  | 1.21 |      |     |    |    |    |     | .15  | .82  |      |     |    |    |    |    |     | .43  | .46  |      |    |    |    |        |      | 3.14 |      |
| Cheraw(1)  |               |     |     |   |     |     |     |      | .04  | .99  |      | T   |    |    |    |     | .13  | .34  | .76  |     |    |    |    |    |     | .40  | .48  |      |    |    |    |        | .06  | 2.52 |      |
| Cheraw(2)  |               |     |     |   |     |     | .12 | .24  | .20  |      |      |     |    |    |    | .03 | T    | 1.87 |      |     |    |    |    |    |     |      |      |      |    |    |    |        | .20  | 1.60 |      |
| Clark's Hill   |               |     |     |   |     |     | T   | .36  | .35  |      |      |     |    |    |    |     | T    | T    | .69  |     |    |    |    |    |     |      |      |      |    |    |    | T      | T    | 1.94 |      |
| Clemson College  |               |     |     |   |     |     |     | .35  |      |      |      |     |    |    |    |     | T    | T    | 1.56 |     |    |    |    |    |     | .01  |      |      |    |    |    |        |      | 3.34 |      |
| Columbia   |               | .02 | T   |   |     |     |     |      |      | .85  | T    | .13 |    |    |    |     | .60  | 1.36 |      |     |    |    |    |    |     | 1.66 | .35  |      |    |    |    | T      |      | 4.68 |      |
| Conway   |               |     |     |   |     |     |     | 1.01 |      |      | .02  |     |    |    |    |     | 1.63 | .01  |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 0.97 |      |
| Darlington   |               |     |     |   |     |     |     | .28  |      |      |      |     |    |    |    | T   |      | .69  |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 2.30 |      |
| Due West   |               |     |     |   |     |     |     | .30  | .16  |      |      |     |    |    |    | T   | T    | .65  | 1.03 |     |    |    |    |    |     | .12  | .04  |      |    |    |    |        |      | 3.80 |      |
| Edisto   |               |     |     |   |     |     |     | T    | .80  | T    |      |     |    |    |    |     |      | .70  | .90  |     |    |    |    |    |     | .60  | .80  |      |    |    |    |        |      | 4.51 |      |
| Effingham  |               |     |     |   |     |     |     | .08  | .61  |      |      |     |    |    |    |     |      | .35  | 1.55 |     |    |    |    |    |     |      | 1.92 |      |    |    |    |        |      | 1.50 |      |
| Florence   |               |     |     |   |     |     |     | .10  | .95  |      |      |     |    |    |    |     |      | .21  | .24  |     |    |    |    |    |     |      |      |      |    |    |    |        | 3.00 |      |      |
| Gaffney  |               |     |     |   |     |     |     |      |      |      | 1.50 |     |    |    |    |     | 1.00 |      |      |     |    |    |    |    |     | .50  |      |      |    |    |    |        |      | 1.84 |      |
| Georgetown   |               |     |     |   |     | T   |     |      |      |      |      |     |    |    |    |     | .20  | 1.15 |      |     |    |    |    |    |     | .49  |      |      |    |    |    | .08    | 1.39 |      |      |
| Gillisonville  |               |     |     |   |     |     | T   | .74  | .02  |      |      |     |    |    |    |     |      | .23  | .32  |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 2.11 |      |
| Greenville   |               |     |     |   |     |     |     | .27  |      |      |      |     |    |    |    |     | .20  | .74  | .90  |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 3.89 |      |
| Greenwood  |               |     |     |   |     |     |     | .36  |      |      |      |     |    |    |    |     |      | 1.94 |      |     |    |    |    |    |     | .10  | .15  |      |    |    |    |        | .03  | 2.61 |      |
| Heath Springs  |               |     |     |   |     |     |     | .09  | .75  |      | .05  |     |    |    |    |     |      | .52  | 1.20 |     |    |    |    |    |     | .40  | .88  |      |    |    |    |        |      | 3.90 |      |
| Kingstree(1)   |               |     |     |   |     |     |     | .10  | .73  |      | .06  |     |    |    |    |     |      | .55  | 1.21 |     |    |    |    |    |     | .36  | .89  |      |    |    |    |        | T    | 1.66 |      |
| Kingstree(2)   |               |     |     |   |     |     | T   | T    | .50  |      |      |     |    |    |    | T   | T    | .86  |      |     |    |    |    |    |     |      |      |      |    |    |    |        | T    | 2.46 |      |
| Liberty  |               |     |     |   |     |     |     | .37  |      |      |      |     |    |    |    | T   | T    | 2.08 |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 2.39 |      |
| Little Mountain  |               | .01 |     |   |     |     | T   | .15  |      |      |      |     |    |    |    | .32 | .25  | 1.63 |      |     |    |    |    |    |     |      |      |      |    |    |    | .03    | .01  | 4.29 |      |
| Longshore  |               |     |     |   |     |     | T   | .25  |      |      |      |     |    |    |    |     | T    | 1.63 |      |     |    |    |    |    |     | .14  |      |      |    |    |    |        | .02  |      |      |
| Lugoff   |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     |      |      |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      | 2.16 |      |
| Pinopolis  |               |     |     |   |     |     |     |      | .08  |      |      |     |    |    |    |     |      | .66  | .72  |     |    |    |    |    |     | .30  | .40  |      |    |    |    |        |      | 2.95 |      |
| St. Georges  |               |     |     |   |     |     |     |      | .05  |      |      |     |    |    |    |     | .10  | .85  | 1.00 |     |    |    |    |    |     | .70  | .25  |      |    |    |    |        |      | 4.03 |      |
| St. Matthews   |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     |      | .65  | .90  |     |    |    |    |    |     |      | .72  | 1.10 |    |    |    |        | .02  | 1.71 |      |
| St. Stephens   |               |     |     |   |     |     | T   | .10  | .54  |      |      |     |    |    |    | .05 | T    | 1.30 |      |     |    |    |    |    |     | T    |      |      |    |    |    |        |      | 3.02 |      |
| Saluda   |               |     |     |   |     |     |     | .28  |      |      |      |     |    |    |    | .05 | T    | 1.46 |      |     |    |    |    |    |     | .25  | .24  |      |    |    |    |        |      | .10  | 3.24 |
| Santuc   |               |     |     |   |     |     | .51 | .16  |      |      |      |     |    |    |    | .05 | T    | 2.04 | T    |     |    |    |    |    | .02 | .19  |      |      |    |    |    |        |      | .46  | 3.75 |
| Savannah, Ga.  |               |     | .18 |   |     |     | .17 |      |      |      |      |     |    |    |    | T   | T    | 1.54 |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      | T    | 1.75 |
| Seivern  |               |     |     |   |     |     | .07 | .14  |      |      |      |     |    |    |    |     | .20  | 1.10 |      |     |    |    |    |    |     | T    | .65  |      |    |    |    |        |      | 3.55 |      |
| Smiths Mills   |               |     |     |   |     |     | .40 |      |      |      |      |     |    |    |    |     | .40  | .75  |      |     |    |    |    |    |     | 1.05 | .50  |      |    |    |    |        |      | .03  | 3.55 |
| Sumter   |               |     |     |   |     |     |     | .83  | .03  |      |      |     |    |    |    |     |      | .19  | .25  |     |    |    |    |    |     |      |      |      |    |    |    |        |      | .03  | 1.05 |
| Society Hill   |               |     |     |   |     |     |     | .58  |      |      |      |     |    |    |    |     | T    | 1.58 |      |     |    |    |    |    |     | .20  | .75  |      |    |    |    |        | .15  | 3.01 |      |
| Spartanburg  |               |     |     |   |     |     |     | .16  |      |      | T    |     |    |    |    |     | .17  | .58  |      |     |    |    |    |    |     | .55  | .52  |      |    |    |    |        |      |      | 3.36 |
| Stateburg  |               |     |     |   |     |     | .77 | .01  | .13  |      |      |     |    |    |    |     | .64  | .74  |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      |      |      |
| Summerville  |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     |      |      |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      |      |      |
| Sumter   |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     |      |      |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      |      |      |
| Temperance   |               |     |     |   |     |     |     |      |      |      |      |     |    |    |    |     | .06  |      | 1.78 |     |    |    |    |    |     |      |      |      |    |    |    |        |      | .13  | 2.30 |
| Trenton  |               |     |     |   |     | .01 | .03 | T    | .29  |      |      |     |    |    |    |     |      | 1.43 |      |     |    |    |    |    |     | 1.06 |      |      |    |    |    |        |      |      | 2.97 |
| Trenton  |               |     |     |   |     |     |     | .06  | .40  |      |      |     |    |    |    |     |      |      | .95  |     |    |    |    |    |     |      |      |      |    |    |    |        |      | .20  | 2.35 |
| Trial  |               |     |     |   |     |     |     |      | 1.20 |      |      |     |    |    |    |     |      | .71  | 1.11 |     |    |    |    |    |     |      |      |      |    |    |    |        |      | T    | 2.78 |
| Walhalla   |               |     |     |   |     |     |     | .02  |      |      |      |     |    |    |    |     |      | 1.37 | .02  |     |    |    |    |    |     |      | .91  | .03  |    |    |    |        |      |      | 2.46 |
| Walterboro   |               |     |     |   |     |     |     | .61  |      | T    | .13  | T   | T  |    |    |     |      | 1.73 |      |     |    |    |    |    |     |      | .30  |      |    |    |    |        |      | T    | 2.24 |
| Wilmington, N. C.                                      |               |     | .03 |   |     |     |     | .51  |      |      |      |     |    |    |    |     | T    | T    | 1.35 |     |    |    |    |    |     | .15  | .33  |      |    |    |    |        |      | .03  | 2.61 |
| Winnsboro  |               |     |     |   |     |     |     | .75  |      |      |      |     |    |    |    |     |      |      | .61  | .76 |    |    |    |    |     |      | .50  | .08  |    |    |    |        |      |      | 2.19 |
| Winthrop College                                       |               |     |     |   | .02 |     | T   | .22  |      |      | .02  |     |    |    |    |     |      |      |      |     |    |    |    |    |     |      | .28  |      |    |    |    |        |      | .09  | 2.68 |
| Yemassee   |               |     |     |   |     |     |     | .36  | .18  | .64  |      |     |    |    |    |     |      |      | 1.13 |     |    |    |    |    |     |      |      |      |    |    |    |        |      |      |      |
| Yorkville  |               |     | T   |   |     |     |     |      |      |      |      |     |    |    |    |     |      |      |      |     |    |    |    |    |     |      |      |      |    |    |    |        |      |      |      |

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR NOVEMBER, 1903.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

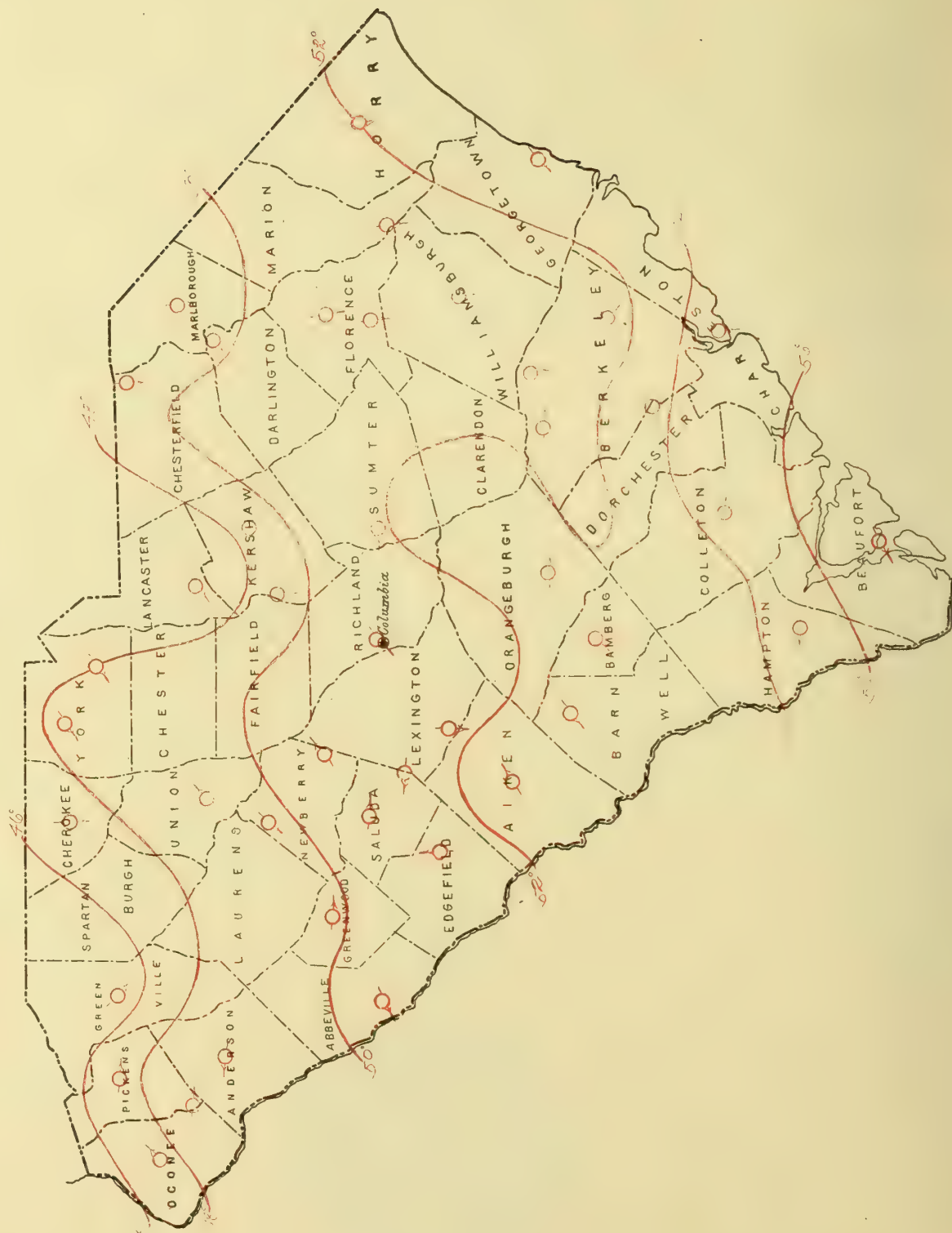


RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1903.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR NOVEMBER, 1903.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

Barometer and Wind Table for November, 1903.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.14      | 30.58    | 20    | 29.53   | 28    | 4.113           | 5.7             | 24                | ne.        | 6     |
| Charleston. ....       | 30.12      | 30.54    | 20    | 29.73   | 29    | 8.057           | 11.2            | 33                | n.         | 27    |
| Charlotte, N. C. ....  | 30.15      | 30.66    | 20    | 29.69   | 28    | 4.397           | 6.1             | 27                | w.         | 17    |
| Columbia. ....         | 30.13      | 30.61    | 20    | 29.71   | 28    | 6.864           | 9.5             | 36                | ne.        | 6     |
| Savannah, Ga. ....     | 30.11      | 30.50    | 20    | 29.75   | 29    | 5.775           | 8.0             | 27                | e.         | 6     |
| Wilmington, N. C. .... | 30.10      | 30.57    | 20    | 29.68   | 29    | 5.449           | 7.6             | 28                | n.         | 6     |
| Averages. ....         | 30.12      | 30.58    | 20    | 29.68   | 29    | 5.759           | 8.0             | 36                | ne.        | 6     |

VOL. VI. COLUMBIA, S. C., NOVEMBER, 1903.

No. 11.

## PROGRESS OF FARMWORK.

The first six days of the month, and the middle of the second decade, were warm, and the rest of the month was unusually cold. A moderate cool wave, on the 7th and 8th, caused killing frosts over the State except along the coast, and a severe cold wave, on the 18th and 19th, caused freezing temperatures over the entire State, as well as the first ground freeze of the season in all save the coast sections. The month as a whole ranks among the coldest Novembers of record.

The precipitation averaged 1.40 inches which is 52 per centum of the normal November amount. It was quite evenly distributed. A trace of snowfall was recorded over the central and eastern counties on the 25th, but at Batesburg only was the snowfall sufficient to whiten the ground.

The soil was in fair condition for seeding, although in places it was too dry. Oats seeding made rapid progress and practically all the proposed acreage was planted, but germination was slow owing to the prevailing cold weather, and, in consequence, stands were unusually small at the close of the month. The proposed wheat acreage is smaller than usual, and seeding was not more than half finished, and scarcely any fields had come up to stands. There has been no injury from the Hessian fly this season.

In the western counties there was a considerable fruitage of late cotton bolls, not open, which the frosts and freezing temperatures destroyed. Picking is finished, except that in a few fields there remain a few scattered bolls that are being picked, under the stimulus of the prevailing high price of cotton. In ordinary years this part of the crop would not be considered worth picking, but the whole of this year's crop has been picked unusually close.

Truck was injured by the freezing temperatures. The cold weather was favorable for butchering hogs nearly a month earlier than usual, and thereby effecting a saving of the feeding value for that length of time. Butchering was begun as soon as the first cold wave warning was issued by the Weather Bureau, and before the temperature had fallen to the requisite degree of coldness for saving the meat.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for November, 1903, was 50.9°, which is 3.3° below normal. The highest local mean was 56.8° at Beaufort; the lowest 45.5° at Greenville. The highest maximum was 86° at Bennettsville on the 5th, the lowest minimum was 10° at Clemson College on the 27th, making the State range 76°. The greatest local monthly range was 74° at Clemson College, the least was 46° at Georgetown. The mean of the daily maximum temperatures was 61.5°, of the daily minimum temperatures 40.3°, making the mean daily range 21.2°.

Frosts.—The following is a list of stations that recorded the first killing frost of the season in this month, and this list is supplemental to the one published in the October, 1903, Monthly Report. The dates in this list for Beaufort, Stateburg, Summerville and Yorkville are corrections for the October list. On the 5th at Aiken; on the 7th at Charlotte, N. C., Georgetown, Stateburg, Winnsboro and Yorkville; on the 8th at Blackville, Columbia, Pinopolis and Wilmington, N. C.; on the 19th at Allendale, Beaufort, Charleston, Savannah, Ga., Summerville and Walterboro.

## Precipitation, in Inches.

The precipitation averaged 1.40 inches, which is 1.28 below normal. The greatest local amount was 3.17 at Batesburg, the least was "Trace" at Georgetown. The greatest 24-hour fall was 1.73 at Yemassee on the 4th. The average number of days with 0.01 inch, or more, of rain was 5, ranging from none at Georgetown to 9 at Charleston, Greenville, Summerville and Walterboro.

Hail.—Yorkville on the 5th.

Snow.—A general but very light fall of snow occurred on the 25th. The greatest depth was 0.7 at Batesburg.

Sleet.—Sleet was recorded as follows: Anderson, 20; Barksdale, Bowman, Clarks Hill, Columbia, Clemson College, Liberty, Summerville, Trenton, Winthrop College and Yemassee on the 21st; Batesburg, 22; Bennettsville, Greenville, Little Mountain, 21, 25; Blackville, 21, 26; Camden, Heath Springs, Lugoff, Society Hill, Spartanburg, on the 25th; Darlington, 24; Longshore, 25, 26; Saluda, 7, 25.

Weather.—The average number of clear days was 14, of partly cloudy 8, and of cloudy 8.



Winds.—The prevailing direction of the wind was from the north at 16 stations, from the northeast at 15, from the west at 8, from the southwest at 6, from the east at 4, from the northwest at 3, and from the south at 1 station.

High Winds.—Beaufort, 28; Bowman, 7; Columbia, 6, 18, 19, 21, 26, 27; Charleston, 27; Liberty, 23, 26.

#### MISCELLANEOUS PHENOMENA (with dates).

Lunar Coronæ.—Blackville, 28; Santuc, 30.

Solar Halos.—Charleston, 4, 8, 11, 16; Columbia, 1, 3; Saluda, Stateburg, 8.

Lunar Halos.—Charleston, 2, 3, 4; Columbia, Little Mountain, Stateburg, 1; Gillisonville, 1, 3, 4; Santuc, 1, 11.

Fogs.—Barksdale, 12, 13; Beaufort, 13; Blackville, Gillisonville, 14th; Bowman, 13, 14, 15; Charleston, 13, 17; Clarks Hill, 5, 11, 13, 14; Columbia, 14, 30; Clemson College 3, 5, 8; Greenville, Longshore, 5; Liberty, 3, 10, 13, 14; Little Mountain, 5, 14; Lugoff, Stateburg, 3; Saluda, 1, 3, 5, 13; Seivern, 13, 14, 15, 22; Society Hill, 4, 15; Summerville, 6, 24; Yorkville, 3, 5.

Thunderstorms.—Aiken, Blackville, Yorkville, 17; Beaufort, Liberty, 4, 17; Blackville, Trenton, 2, 17; Little Mountain, Longshore, Lugoff, Saluda, 2; Gillisonville, 2, 3, 4; Greenville, 4; Summerville, 3; Winthrop College, 15, 16.

The total number of thunderstorms reported was 24, distributed as follows: 8 on the 2nd, 2 on the 3rd, 5 on the 4th, 1 on the 15th, 1 on the 16th, 7 on the 17th.

In addition to the above, thunderstorms occurred at Charleston on the 4th, 17th; at Columbia on the 2nd.

#### REMARKS BY OBSERVERS.

Aiken.—Much colder weather than usual this month. On seven days the minimum temperature was below freezing, and on three others it was 33°.—Dr. C. F. McGahan, M. D.

Barksdale.—There was some snow on the 26th and 27th, but not enough to whiten the ground.—J. T. Garrett.

Batesburg.—The month was dry and cold, but the weather was fine for seeding fall grain. There is some cotton yet to be picked. The yield of sweet potatoes was very good.—E. J. Hite.

Beaufort.—The mean temperature was 2.5° below normal, and the precipitation 0.62 below. The cold and cloudy weather of the month cut off a large part of the late cotton, making the crop a very short one. Sea-island suffered more than upland cotton. Fall truck generally poor.—S. M. Benton.

Blackville.—The monthly mean temperature was 2.6° be-

low normal, and the precipitation 0.43 below.—G. D. C. Lange.

Bowman.—The month was remarkable for the small amount of precipitation, the total having been only 0.74 inch. The very severe cold of the 28th injured rutabagas seriously but did not injure small grains.—B. O. Evans.

Conway.—The slight fall of snow on the 25th melted as it fell.—McQ. Quattelbaum.

Gillisonville.—The month was damp and bleak. The yield of potatoes and cane were fairly good. Oats sowing was rushed, but germination is slow. Grain crops are in a poor condition owing to the unfavorable weather.—Sam P. Saltus.

Heath Springs.—Corn has all been gathered and the yields are fairly good. Some cotton still to pick. Small grains are very backward on account of the cold and dry weather.—J. A. Weaner.

Liberty.—An unusually cold and dry November. Frosts were of frequent occurrence. Much late cotton was destroyed by the freezing weather. Wheat sowing is well advanced. Considerable plowing has been done. Much of the small grain is up to stands.—Jno. T. Boggs.

Longshore.—This was the coldest November on record at this station. It was also very dry after the first week.—W. G. Peterson.

Lugoff.—The month was unusually cold, with a severe cold wave near its close, making it the coldest November in years. Cotton and corn have been all gathered. Oats are being sown, and some are up.—W. J. Burdell, M. D.

Santuc.—Wild geese were observed at a great height, going south, on the 2nd.—E. W. Jeter.

Stateburg.—The weather conditions were quite favorable from the first to the eighteenth, for farmwork and harvesting, but from the latter date to the end of the month the temperatures fell to, or below freezing, every night. During this period not much farmwork was accomplished.—W. W. Anderson, M. D.

Summerville.—Heavy fogs on the 6th and 24th. Plants were killed on the night of the 18th. Sleet fell on the morning of the 21st.—Miss Lela R. Gadsden.

Trenton.—Precipitation 1.29 less than the normal for November, and 2.87 inches less than the average for the first 11 months of the year.—All crops gathered, and fall grain all sowed.—C. A. Long.



## CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER, 1903.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       | Sky                         |                    |                    |                            |                       | Observer. |                               |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|-----------------------|-----------|-------------------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snow fall, unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. |           | Prevailing direction of wind. |
| Aiken, d.                             | Aiken        | 565             | 2                       | 49.8                               |                            | 82       | 5     | 19      | 28    |                          | 2.90   |                            |                       | T.                          |                    | 20                 | 5                          | 1                     | sw.       | Dr. C. F. McGahan.            |
| Allendale                             | Barnwell     | 186             | 15                      | 53.7                               | -1.8                       | 79       | 1*    | 21      | 28    | 29                       | 1.11   | -1.31                      | 0.42                  | T.                          | 4                  | 18                 | 7                          | 5                     |           | R. D. Peoples.                |
| Anderson                              | Anderson     | 764             | 2                       | 51.8†                              | +1.7                       | 79       | 1     | 16      | 27    | 36                       | 1.57   | -1.68                      | 0.90                  |                             | 4                  | 16                 | 11                         | 3                     | e.        | R. B. Dean.                   |
| Angusta, Ga.                          | Richmond     | 134             | 32                      | 52.0                               | -1.4                       | 78       | 1     | 22      | 28    | 31                       | 3.20   | +0.15                      | 2.41                  |                             | 7                  | 11                 | 9                          | 10                    | nw.       | Weather Bureau.               |
| Barksdale, J.                         | Laurens      | 780             | 2                       | 48.6                               |                            | 76       | 14    | 18      | 27    | 30                       | 0.40   | -0.40                      | 0.40                  | T.                          | 1                  | 6                  | 10                         | 4                     | sw.       | J. T. Garrett.                |
| Batesburg                             | Lexington    | 656             | 15                      | 51.0                               | -3.1                       | 85       | 3     | 19      | 27    | 35                       | 3.17   | +0.43                      | 1.21                  | 0.7                         | 6                  | 10                 | 7                          | 12                    | e.        | E. J. Hite.                   |
| Beaufort                              | Beaufort     | 28              | 17                      | 56.8                               | -2.5                       | 80       | 1     | 25      | 28    | 27                       | 1.64   | -0.59                      | 0.62                  |                             | 7                  | 15                 | 9                          | 6                     | ne.       | S. M. Benton.                 |
| Bennettsville                         | Marlboro     |                 | 2                       | 53.9                               |                            | 86       | 5     | 16      | 28    | 34                       | 0.30   | -0.43                      | 0.15                  | T.                          | 2                  | 24                 | 6                          | 0                     | n.        | Jno. L. McCall.               |
| Blackville                            | Barnwell     | 296             | 15                      | 53.1                               | -2.6                       | 83       | 1     | 19      | 28    | 33                       | 1.65   | -0.43                      | 0.63                  |                             | 5                  | 13                 | 15                         | 2                     | ne.       | G. D. C. Lange.               |
| Bowman                                | Orangeburg   | 160             | 2                       | 52.3                               |                            | 79       | 1*    | 17      | 28    | 32                       | 0.74   | -0.74                      | 0.28                  | T.                          | 7                  | 13                 | 16                         | 1                     | w.        | B. O. Evans.                  |
| Calhoun Falls                         | Abbeville    | 508             | 10                      |                                    |                            |          |       |         |       |                          | 0.36   | -2.96                      | 0.29                  |                             | 2                  | 16                 | 0                          | 14                    | ne.       | P. J. Pfeiffer.               |
| Camden                                | Kershaw      | 222             | 37                      |                                    |                            |          |       |         |       |                          | 1.42   | -0.92                      | 0.75                  | T.                          | 6                  | 17                 | 4                          | 9                     | w.        | H. G. Garrison.               |
| Charleston                            | Charleston   | 48              | 34                      | 55.3                               | -2.3                       | 79       | 14    | 26      | 28    | 26                       | 1.20   | -1.80                      | 0.42                  |                             | 9                  | 10                 | 11                         | 9                     | n.        | Weather Bureau.               |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 25                      | 47.7                               | -2.2                       | 76       | 3     | 18      | 27    | 28                       | 1.43   | -1.62                      | 0.95                  | T.                          | 4                  | 11                 | 7                          | 12                    | ne.       | Weather Bureau.               |
| Cheraw (1) b.                         | Chesterfield | 144             | 15                      | 49.5                               | -3.3                       | 80       | 17    | 14      | 28    | 31                       | 0.63   | -1.57                      | 0.45                  |                             | 3                  | 7                  | 4                          | 19                    | n.        | W. R. Godfrey.                |
| Cheraw (2)                            |              | 141             | 10                      |                                    |                            |          |       |         |       |                          | 0.61   | -2.31                      | 0.41                  | T.                          | 4                  | 14                 | 8                          | 8                     | n.        | Jno. H. Powe.                 |
| Clarks Hill                           | Edgefield    | 456             | 1                       | 51.8                               |                            | 81       | 1     | 20      | 27*   | 32                       | 2.22   | -0.87                      | 0.87                  |                             | 5                  | 9                  | 5                          | 16                    |           | Wm. S. Middleton.             |
| Clemson College                       | Oconee       | 850             | 12                      | 49.4                               | -1.8                       | 84       | 1     | 10      | 27    | 41                       | 2.43   | -0.78                      | 1.65                  |                             | 4                  | 14                 | 7                          | 9                     | w.        | Prof. C. C. Newman.           |
| Columbia                              | Richland     | 351             | 16                      | 51.6                               | -2.2                       | 76       | 1     | 22      | 28    | 26                       | 1.36   | -0.98                      | 0.48                  | T.                          | 8                  | 6                  | 15                         | 9                     | ne.       | Central Office.               |
| Conway, c.                            | Horry        | 25              | 12                      | 52.2                               |                            | 80       | 3     | 15      | 28    | 34                       | 0.91   | -0.85                      | 0.35                  | T.                          | 3                  | 19                 | 6                          | 5                     | n.        | McQ. Quattlebaum.             |
| †Darlington                           | Darlington   | 175             | 8                       | 51.2                               |                            | 82       | 1*    | 15      | 27    | 37                       | 0.88   | -1.99                      | 0.34                  | T.                          | 6                  | 14                 | 7                          | 9                     |           | E. R. Melver.                 |
| Due West                              | Abbeville    | 740             | 2                       |                                    |                            |          |       |         |       |                          | 0.90   | -2.24                      | 0.42                  | T.                          | 5                  | 15                 | 5                          | 10                    | ne.       | Rev. O. Y. Bonner.            |
| Edisto                                | Barnwell     | 127             | 10                      |                                    |                            |          |       |         |       |                          | 1.42   | -1.24                      | 0.72                  | T.                          | 4                  | 17                 | 6                          | 7                     | n.        | J. L. Padgett.                |
| Edlingham                             | Florence     | 106             | 11                      |                                    |                            |          |       |         |       |                          | 0.89   | -1.56                      | 0.45                  |                             | 3                  | 13                 | 14                         | 3                     | n.        | H. B. McCall.                 |
| Florence                              | Florence     | 136             | 15                      | 51.4                               | -3.9                       | 80       | 2*    | 17      | 28    | 43                       | 0.89   | -1.56                      | 0.45                  |                             | 3                  | 13                 | 14                         | 3                     | n.        | Howell DeBerry.               |
| Gaffney                               | Cherokee     | 893             | 7                       | 47.8                               |                            | 82       | 1     | 15      | 27    | 41                       | 1.08   | -2.26                      | 0.50                  |                             | 7                  | 12                 | 4                          | 14                    | n.        | B. F. Camp.                   |
| Georgetown                            | Georgetown   | 12              | 10                      | 49.08                              | -8.7                       | 72       | 14    | 26      | 19    | 27                       | T.     | -3.32                      | T.                    |                             | 0                  | 28                 | 0                          | 2                     | ne.       | W. T. Turbeville.             |
| Gillisonville                         | Hampton      | 50              | 8                       | 54.2                               | -3.4                       | 83       | 17    | 17      | 28    | 34                       | 1.83   | -1.17                      | 1.13                  |                             | 6                  | 18                 | 5                          | 7                     | e.        | Sam P. Salts.                 |
| Greenville                            | Greenville   | 989             | 11                      | 45.5                               | -5.0                       | 74       | 1     | 16      | 28    | 38                       | 1.95   | -1.95                      | 0.58                  | T.                          | 9                  | 11                 | 3                          | 16                    | nw.       | Mrs. S. A. Crittenden.        |
| Greenwood                             | Greenwood    | 671             | 15                      | 48.8                               | -3.6                       | 75       | 1*    | 19      | 27    | 29                       | 1.23   | -1.81                      | 0.52                  |                             | 4                  | 10                 | 1                          | 19                    | w.        | M. M. Calhoun.                |
| Heath Springs                         | Lancaster    | 2               | 2                       | 45.8                               |                            | 80       | 4     | 12      | 28    | 34                       | 0.83   | -0.70                      | 0.70                  | T.                          | 4                  | 14                 | 8                          | 8                     | ne.       | J. A. Weaver.                 |
| Kingstree (1) f.                      | Williamsburg | 54              | 15                      | 50.2                               | -5.3                       | 79       | 17    | 15      | 28    | 31                       | 0.45   | -2.48                      | 0.14                  | T.                          | 5                  | 13                 | 7                          | 10                    | n.        | W. H. Edwards.                |
| Kingstree (2)                         |              | 54              | 9                       |                                    |                            |          |       |         |       |                          | 0.45   | -2.48                      | 0.14                  | T.                          | 4                  | 14                 | 7                          | 9                     | n.        | W. H. Matthews.               |
| Liberty                               | Pickens      | 900             | 9                       | 48.8                               | -1.5                       | 76       | 1*    | 14      | 27    | 38                       | 2.28   | -0.65                      | 1.04                  | T.                          | 4                  | 15                 | 6                          | 9                     | w.        | Jno. T. Boggs.                |
| Little Mountain                       | Newberry     | 711             | 10                      | 51.0                               | -4.5                       | 77       | 1*    | 20      | 27*   | 30                       | 0.89   | -1.82                      | 0.40                  | T.                          | 6                  | 11                 | 14                         | 5                     | sw.       | John M. Sease, M. D.          |
| †Longshore                            | Newberry     | 530             | 10                      | 50.0                               | -3.1                       | 78       | 1     | 12      | 28    | 35                       | 2.21   | -1.11                      | 1.23                  | T.                          | 7                  | 9                  | 6                          | 15                    | ne.       | W. G. Peterson.               |
| Lugoff                                | Kershaw      | 168             | 2                       | 49.8                               |                            | 80       | 2*    | 13      | 27    | 31                       | 1.21   | -1.81                      | 0.75                  |                             | 4                  | 18                 | 6                          | 6                     | n.        | W. J. Burdell, M. D.          |
| §Pinopolis                            | Berkeley     | 54              | 10                      | 51.3                               | -3.9                       | 74       | 3*    | 26      | 19*   |                          | 2.90   | -0.17                      | 1.56                  |                             | 6                  | 9                  | 10                         | 11                    | nw.       | E. P. Ravenel.                |
| St. Georges                           | Dorchester   | 109             | 15                      | 51.8                               | -4.0                       | 78       | 17    | 17      | 28    | 30                       | 1.75   | -0.71                      | 0.65                  | T.                          | 5                  | 18                 | 7                          | 5                     |           | W. B. Rayson.                 |
| St. Matthews                          | Orangeburg   | 269             | 15                      | 51.6                               | -4.2                       | 78       | 17    | 16      | 28    | 30                       | 1.39   | -0.80                      | 0.70                  | T.                          | 6                  | 14                 | 4                          | 12                    |           | J. S. Wannamaker.             |
| St. Stephens                          | Berkeley     | 73              | 11                      |                                    |                            |          |       |         |       |                          | 0.96   | -1.51                      | 0.61                  | T.                          | 4                  | 13                 | 6                          | 11                    | n.        | C. T. Shuler.                 |
| Saluda                                | Saluda       | 536             | 2                       | 50.6                               |                            | 80       | 1     | 17      | 28    | 35                       | 1.81   | -0.82                      | 0.82                  | T.                          | 8                  | 19                 | 3                          | 8                     | w.        | Alvin Etheridge.              |
| Sautuc                                | Union        | 512             | 10                      | 48.8                               | -2.7                       | 77       | 3*    | 13      | 28    | 38                       | 1.22   | -2.04                      | 0.52                  | T.                          | 4                  | 9                  | 13                         | 8                     | sw.       | E. W. Jeter.                  |
| Savannah, Ga.                         | Chatham      | 71              | 34                      | 56.4                               | -1.4                       | 81       | 13    | 25      | 28    | 28                       | 1.84   | -0.54                      | 0.84                  |                             | 9                  | 11                 | 15                         | 4                     | n.        | Weather Bureau.               |
| Seivern                               | Aiken        | 482             | 2                       | 50.2                               | -4.8                       | 83       | 1     | 15      | 27    | 37                       | 1.30   | -1.84                      | 0.77                  |                             | 5                  |                    |                            |                       | n.        | J. F. Lyles.                  |
| Smiths Mills                          | Williamsburg | 62              | 8                       |                                    |                            |          |       |         |       |                          | 0.86   | -2.48                      | 0.64                  | T.                          | 4                  | 14                 | 7                          | 9                     | ne.       | H. van Keuren.                |
| Society Hill                          | Darlington   | 192             | 12                      | 49.4                               | -3.7                       | 78       | 17    | 17      | 27    | 29                       | 0.42   | -2.12                      | 0.22                  | T.                          | 3                  | 12                 | 4                          | 14                    | ne.       | J. J. Lucas.                  |
| Spartanburg                           | Spartanburg  | 875             | 12                      | 47.2                               | -4.5                       | 78       | 1     | 16      | 27    | 44                       | 1.82   | -1.33                      | 1.05                  | T.                          | 5                  | 13                 | 0                          | 17                    |           | F. P. Robinson.               |
| Stateburg                             | Sumter       | 500             | 23                      | 52.2                               | -2.0                       | 79       | 17    | 21      | 27    | 29                       | 1.55   | -0.53                      | 0.74                  |                             | 6                  | 9                  | 9                          | 12                    | e.        | W. W. Anderson, M. D.         |
| Summerville                           | Dorchester   | 75              | 6                       | 52.5                               | -3.6                       | 78       | 17    | 17      | 28    | 33                       | 1.91   | -1.56                      | 0.45                  |                             | 9                  | 7                  | 18                         | 5                     | sw.       | Miss L. R. Gadsden.           |
| Sumter                                | Sumter       | 169             | 2                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |                       |           | Chas. S. Kingsmore.           |
| Temperance                            | Marion       | 100             | 5                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |                       |           | J. R. Reeves.                 |
| †Trenton                              | Edgefield    | 620             | 10                      | 51.8                               | -4.9                       | 77       | 1     | 24      | 19    | 29                       | 1.60   | -1.29                      | 0.75                  | T.                          | 5                  | 11                 | 10                         | 9                     | s.        | C. A. Long.                   |
| †Trial                                | Berkeley     | 85              | 17                      | 52.0                               | -3.9                       | 81       | 17    | 13      | 28    | 38                       | 1.02   | -1.55                      | 0.35                  |                             | 5                  | 16                 | 7                          | 7                     | w.        | Etsell Gaillard.              |
| Walhalla                              | Oconee       | 1061            | 13                      | 47.7                               | -1.9                       | 76       | 17    | 13      | 27    | 44                       | 1.60   | -1.81                      | 1.05                  |                             | 2                  | 15                 | 5                          | 10                    | sw.       | J. D. Isbell.                 |
| Walterboro                            |              |                 |                         | 55.4                               |                            | 82       | 17    | 18      | 28    | 38                       | 2.15   | -0.87                      | 0.87                  |                             | 9                  | 18                 | 8                          | 4                     | w.        | J. A. Westerberg.             |
| Wilmington, N. C.                     | New Hanover  | 52              | 34                      | 50.9                               | -3.7                       | 78       | 1     | 21      | 28    | 33                       | 1.03   | -1.42                      | 0.40                  |                             | 11                 | 11                 | 12                         | 7                     | n.        | Weather Bureau.               |
| Winnboro                              | Fairfield    | 545             | 14                      | 51.8                               | -1.3                       | 77       | 1     | 20      | 27    | 26                       | 1.36   | -1.64                      | 1.36                  |                             | 1                  | 12                 | 17                         | 1                     | ne.       | John W. Seigler.              |
| Winthrop College                      | York         | 690             | 4                       | 49.2                               | -4.1                       | 76       | 1*    | 17      | 28    | 32                       | 1.23   | -1.76                      | 0.84                  | T.                          | 5                  | 11                 | 12                         | 7                     | ne.       | Geo. B. Green.                |
| Yemassee                              | Beaufort     | 23              | 8                       | 53.4                               | -3.7                       | 80       | 17    | 19      | 28    | 36                       | 2.91   | +0.37                      | 1.73                  |                             | 7                  | 14                 | 5                          | 11                    |           | J. G. Hutson.                 |
| †Yorkville                            | York         | 680             | 15                      | 50.6                               | -2.5                       | 78       | 1     | 20      | 27    | 34                       | 0.91   | -2.07                      | 0.31                  |                             | 4                  | 8                  | 11                         | 11                    | ne.       | J. R. Schorb.                 |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 50.9                               | -3.3                       | 86       | 5     | 10      | 27    | 44                       | 1.40   | -1.28                      | 1.73                  | T.                          | 5                  | 14                 | 8                          | 8                     | n.        |                               |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.

NOTE.—Winnboro data received too late to include in the means or to be published on pages 6 and 8.

r Probably too high.

s Probably too low.



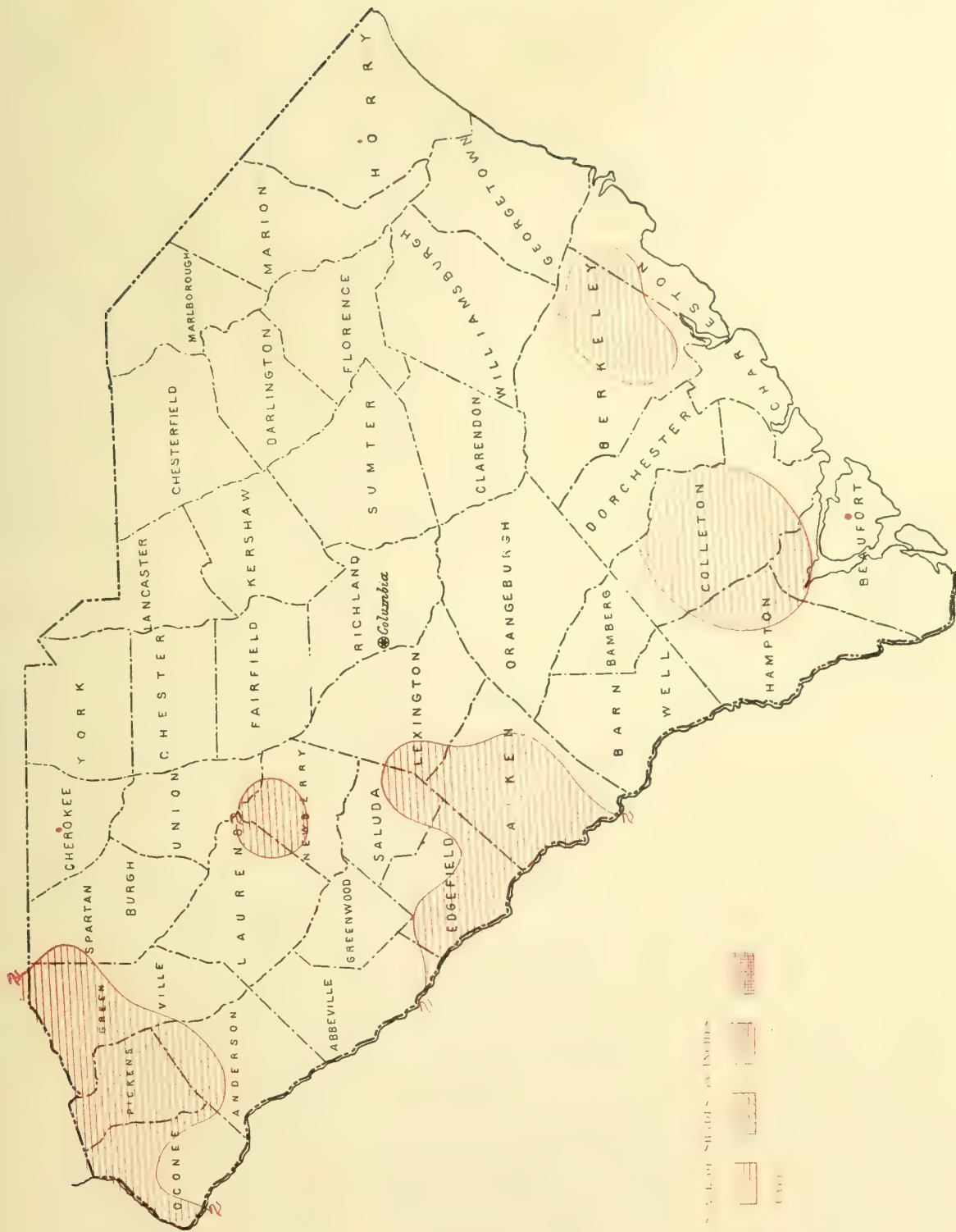
### STATIONS.

a indicates 1 day missing, b 2 days, etc.

a indicates 1 day missing, b 2 days, etc.



TOTAL PRECIPITATION FOR NOVEMBER, 1903.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, NOVEMBER, 1903.

| STATIONS.         | Day of Month. |      |      |      |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |     | Total. |      |      |
|-------------------|---------------|------|------|------|------|----|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|----|-----|--------|------|------|
|                   | 1             | 2    | 3    | 4    | 5    | 6  | 7 | 8  | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24 | 25  | 26  | 27  | 28  | 29 | 30 | 31  |        |      |      |
| Aiken             | *             | *    | 2.00 |      |      |    |   |    |     |     |     |     |     |     |     | .55 |     |     |     |     |     |     |     |    |     | .35 | T.  |     |    |    |     |        | 2.90 |      |
| Allendale         |               | .42  | .38  |      |      |    |   |    |     |     | .23 | .08 | T.  | T.  |     |     |     |     |     |     |     |     |     |    |     |     | T.  |     |    |    |     |        | 1.11 |      |
| Anderson          |               | .90  | .20  |      |      |    |   |    |     |     |     | T.  |     |     |     | T.  | .38 |     |     | .09 |     |     |     |    |     | T.  |     |     |    |    |     |        | 1.57 |      |
| Augusta, Ga.      | .02           | 2.41 | .53  |      |      |    |   |    |     |     |     | T.  |     |     |     |     | .12 | .01 |     |     | .01 | T.  |     |    |     | .10 |     |     |    |    |     |        | 3.20 |      |
| Barksdale         |               |      |      |      |      |    |   |    |     |     |     | T.  |     |     |     |     | .40 |     |     |     |     | T.  |     |    |     |     |     |     |    |    |     |        | 0.40 |      |
| Batesburg         | .22           | T.   | .93  | .22  | 1.21 |    |   |    |     |     |     | T.  |     |     |     |     | .12 |     |     |     |     | T.  |     |    |     |     | .47 |     |    |    |     |        | 3.17 |      |
| Beaufort          |               | .12  | .12  |      |      |    |   | T. |     |     | .03 | T.  |     |     |     |     | .01 |     |     |     | .09 | .38 |     |    |     | T.  | .39 |     |    |    |     |        | 1.64 |      |
| Bennettsville     |               | T.   | .15  | .15  |      |    |   |    |     |     |     |     |     |     |     |     | T.  |     |     |     |     |     |     |    |     | T.  |     |     |    |    |     |        | 0.30 |      |
| Blackville        |               | .33  | .63  |      |      |    |   |    |     |     |     | .28 | T.  | .32 | .02 |     | T.  | .24 |     |     |     | T.  | T.  |    |     |     | .13 | T.  |    |    |     |        | 1.65 |      |
| Bowman            | T.            | .08  | .15  | .03  |      |    |   |    |     |     |     |     |     |     |     |     | T.  | .12 |     |     |     |     |     |    |     | .06 | T.  |     |    |    |     |        | 0.74 |      |
| Calhoun Falls     |               |      | .17  | .29  |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        | 0.46 |      |
| Camden            |               | .25  | .09  | .75  |      |    |   |    |     |     |     |     |     |     |     |     |     | .16 |     |     |     | .09 | T.  |    |     |     | .08 |     |    |    |     |        | 1.42 |      |
| Charleston        |               | .03  | T.   | .26  | .01  | T. |   |    | T.  | T.  |     |     | .01 | T.  |     |     | T.  | .42 | T.  |     | .05 |     | .14 |    |     |     | .11 | .17 |    |    |     |        | 1.30 |      |
| Charlotte, N. C.  |               | .07  | .95  | .03  |      |    |   |    |     |     |     |     |     |     |     |     | T.  | .38 |     |     |     |     |     |    |     | T.  | T.  |     | T. |    |     |        | 1.43 |      |
| Cheraw(1)         |               | .03  |      | .45  |      |    |   |    |     |     |     |     |     |     |     |     |     | .15 |     |     |     |     |     |    |     |     | T.  |     |    |    |     |        | 0.65 |      |
| Cheraw(2)         |               | .04  | .01  | .41  |      |    |   |    |     |     |     |     |     |     |     |     |     | .14 |     |     |     |     |     |    |     |     | T.  |     |    |    |     |        | 0.61 |      |
| Clark's Hill      |               | .87  | .03  | .86  |      |    |   |    |     |     |     |     |     |     |     |     | .28 |     |     |     |     | T.  |     |    |     |     | .18 |     |    |    |     |        | 2.22 |      |
| Clemson College   |               | .52  |      | 1.65 |      |    |   |    |     |     |     |     |     |     |     | T.  | .11 |     |     |     |     |     |     |    |     |     | T.  | T.  |    |    |     |        | 2.43 |      |
| Columbia          |               | .48  | T.   | .40  | .01  |    |   |    |     |     | .12 | T.  |     | .03 |     |     | T.  | .06 | .05 |     |     | T.  | T.  |    |     |     | .21 | T.  | T. |    |     |        | 1.36 |      |
| Conway            |               | T.   |      | .31  |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     | T.  | .25 |     |    |    |     |        | 0.91 |      |
| Darlington        |               | T.   | .29  | T.   |      |    |   |    |     |     | .02 | .02 | T.  |     |     |     |     | .34 |     |     |     |     |     |    | .16 | .05 |     |     |    |    |     |        | 0.88 |      |
| Due West          |               |      |      |      |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        | 0.90 |      |
| Edisto            | .02           | .08  | .42  |      | .22  |    |   |    |     |     |     |     | .72 |     |     |     |     | .30 |     |     |     |     |     |    |     |     | .20 |     |    |    |     |        | 1.42 |      |
| Edingham          |               | T.   |      | .20  |      |    |   |    |     |     |     |     |     |     |     |     |     | .45 |     |     |     |     |     |    |     |     | .27 |     |    |    |     |        | 0.89 |      |
| Florence          |               |      |      | .17  |      |    |   |    |     |     |     |     |     |     |     |     | .02 | .05 |     |     |     |     |     |    |     |     |     |     |    |    |     |        | T.   |      |
| Gaffney           | .12           | .04  |      | .50  | .10  |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        | T.   |      |
| Georgetown        |               |      | T.   |      |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     | .03 |     |    |     |     | .36 |     |    |    |     |        | 1.83 |      |
| Gillisonville     |               | .12  | .02  | 1.13 |      |    |   |    |     |     | T.  | .17 |     |     |     |     |     | .08 | .02 | .25 |     | .01 |     |    |     |     |     |     |    |    |     |        | 1.95 |      |
| Greenville        | .02           | .15  | .36  | .58  | .48  |    |   |    |     |     |     | T.  |     |     |     |     |     | .10 |     |     |     |     |     |    |     |     |     |     |    |    |     |        | 1.23 |      |
| Greenwood         |               |      | .52  | .25  | .36  |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     | T.  |     |     |    |    |     |        | 0.83 |      |
| Heath Springs     |               | .10  |      | .70  |      |    |   |    |     |     |     | T.  | .02 |     |     |     | .01 |     |     |     |     |     | T.  |    |     |     |     |     |    |    |     |        | 0.43 |      |
| Kingstree(1)      |               | T.   |      | .14  |      |    |   |    |     |     |     |     | .06 |     |     |     | T.  | .12 |     |     |     | .01 |     |    |     |     | .12 |     |    |    |     |        | 0.45 |      |
| Kingstree(2)      |               | T.   |      | .14  |      |    |   |    |     |     |     |     | .06 |     |     |     |     | .14 |     |     |     |     |     |    |     |     | .11 |     |    |    |     |        | 2.28 |      |
| Liberty           |               | .82  | 1.04 |      |      |    |   |    |     |     |     |     |     |     | .02 |     | .15 | .27 | .02 |     |     | T.  |     |    |     |     | T.  |     |    |    |     |        | 0.89 |      |
| Little Mountain   |               | .40  | .33  |      |      |    |   |    |     |     |     |     |     |     |     |     | .01 |     |     |     |     | T.  |     |    |     |     | .01 |     |    |    |     |        | 2.21 |      |
| Longshore         | .10           | 1.23 | .01  | .76  |      |    |   |    |     |     |     | T.  |     |     | .05 |     |     | .01 |     |     |     |     |     |    |     |     | T.  |     |    |    |     |        | 1.21 |      |
| Lugoff            |               | .75  | .37  | .05  |      |    |   |    |     |     |     |     |     |     |     |     |     |     | .01 |     |     |     |     |    |     |     |     |     |    |    |     |        | 3.12 |      |
| Pinopolis         |               |      | 1.58 | .22  |      |    |   |    |     |     | .71 |     |     |     |     |     | .08 |     |     |     |     | .40 |     |    |     | .13 |     | .11 |    |    |     |        | 1.75 |      |
| St. Georges       | .14           | .65  |      | .50  |      |    |   |    |     |     |     | .35 |     |     |     |     |     |     |     |     |     |     | .04 |    |     |     | .10 |     |    |    |     |        | 1.39 |      |
| St. Matthews      | .25           | .70  | .25  |      |      |    |   |    |     |     |     | .05 |     |     |     |     |     |     |     |     |     |     | .10 |    |     |     | .09 |     |    |    |     |        | 0.96 |      |
| St. Stephens      |               |      | .16  |      |      |    |   |    |     |     |     | .02 |     | T.  |     |     | .05 | T.  |     |     |     |     |     |    |     | .13 | .02 |     |    |    |     |        | 1.81 |      |
| Saluda            | T.            | .82  | .05  | .68  | .04  |    |   |    |     |     |     | .02 |     | .11 |     |     | .14 |     |     |     |     |     |     |    |     | T.  |     | T.  |    |    |     |        | 1.22 |      |
| Santuc            |               | .52  | .45  |      |      |    |   |    |     |     | .01 |     |     | T.  |     |     | T.  | .14 | T.  |     | .09 | .02 |     |    |     | .03 | .81 |     |    |    |     |        | 1.84 |      |
| Savannah, Ga.     | .05           | .01  | .81  |      |      |    |   | T. | .01 |     | .01 |     |     |     |     |     | T.  |     |     |     |     |     |     |    |     | .03 |     |     |    |    |     |        | 1.30 |      |
| Seivern           | .03           | .30  | T.   | .77  |      |    |   |    |     |     |     | .15 | .05 |     |     |     |     |     | .12 | .22 |     |     |     |    |     |     |     |     |    |    |     |        | 0.86 |      |
| Smiths Mills      |               | .02  |      | .64  |      |    |   |    |     |     |     |     | T.  |     |     |     |     |     |     |     |     | T.  |     |    |     |     | T.  | .08 |    |    |     |        | 0.42 |      |
| Society Hill      | .08           |      | .12  |      |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     | T.  |     |    |    |     |        | 1.82 |      |
| Spartanburg       | .09           | .07  | .21  | .40  | 1.05 |    |   |    |     |     |     | .03 |     |     |     |     | T.  | .18 |     |     |     |     | .02 |    |     |     | .26 |     |    |    |     |        | 1.55 |      |
| Stateburg         |               | .74  | .32  |      |      |    |   |    |     |     |     | T.  | .45 | T.  |     |     | .04 | .01 |     |     |     | .26 |     |    |     | .21 |     |     |    |    |     |        | 1.91 |      |
| Summerville       | .09           | .06  | .40  | .39  |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        |      |      |
| Sumter            |               |      |      |      |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        |      |      |
| Temperance        |               |      |      |      |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        |      |      |
| Trenton           |               | .75  | .50  |      |      |    |   |    |     |     |     | .07 |     |     |     |     | .15 |     |     |     |     | T.  | T.  |    |     |     | .13 |     |    |    |     |        | 1.60 |      |
| Trial             |               | .08  | .30  | .25  |      |    |   |    |     |     |     |     | .35 |     |     |     | .04 |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        | 1.02 |      |
| Walhalla          | 1.05          |      |      |      |      |    |   |    |     |     |     |     |     |     |     |     | .55 |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        | 1.60 |      |
| Walterboro        |               | .11  | .13  | .87  | T.   |    |   |    |     |     | T.  | .11 | .34 | T.  |     |     |     | .07 | .05 |     |     | .03 | .13 |    |     | T.  | .26 |     |    |    |     |        | 2.15 |      |
| Wilmington, N. C. |               | .02  | .65  | .02  | .38  |    |   |    |     | .29 |     |     | .06 | T.  |     |     |     |     |     |     |     |     | .01 |    |     | .06 | .05 |     |    |    | .02 |        |      | 1.03 |
| Winnsboro         |               |      |      |      |      |    |   |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |    |    |     |        |      |      |
| Winthrop College  |               | .11  | .84  | .08  |      |    |   |    |     |     |     | T.  |     |     |     |     | .03 | .20 |     |     |     |     |     |    |     |     |     |     |    |    |     |        | 1.23 |      |
| Yemassee          |               | .25  | .05  | .73  |      |    |   |    |     |     |     | .04 | .07 |     |     |     | T.  | T.  |     |     | T.  | .27 |     |    |     |     | .50 |     |    |    |     |        | 2.91 |      |
| Yorkville         | .18           |      | .31  | .09  | T.   |    |   |    |     |     |     |     |     |     |     |     | T.  | .33 |     |     |     |     |     |    |     |     |     |     |    |    |     |        | 0.91 |      |

\* Not measured until 4th.

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR DECEMBER, 1903.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.

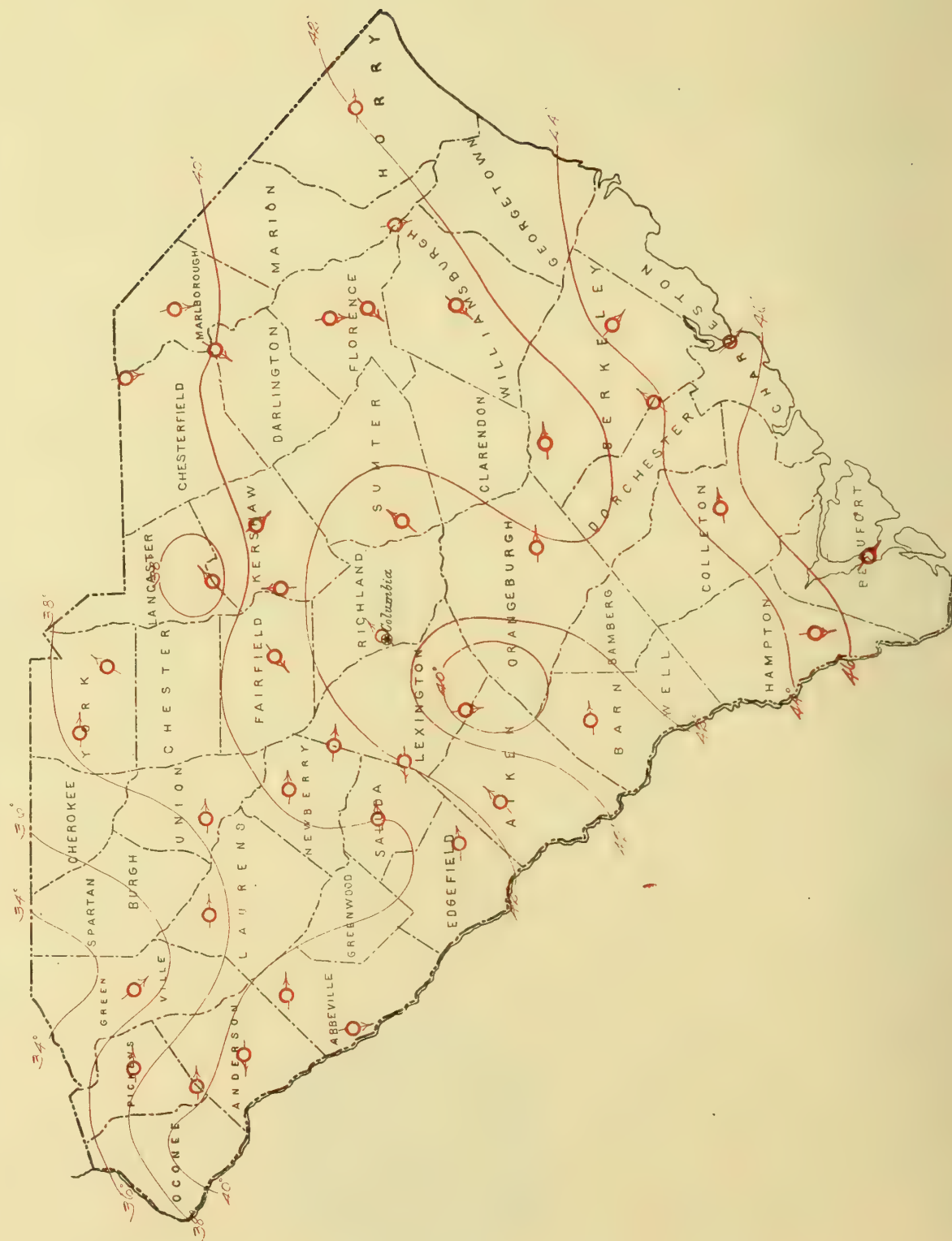


RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1903.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1903.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VI. COLUMBIA, S. C., DECEMBER, 1903.

No. 12.

## PROGRESS OF FARMWORK.

December was an unusually cold month. At stations having a record of less than fifteen years, it was the coldest December of record, and since 1871 only on two years was the average temperature lower in South Carolina for the same month, namely in 1872 and in 1876, while 1886 was equally as cold near the coast.

The mean temperature for the State was only 41°, which is one degree below the active growing temperature, while the mean of the minimum temperatures was about two and a half degrees below freezing, having been 29.4°.

There was a great deal of alternate freezing and thawing that was harmful to grain sown on moist lands. Thin ice was of frequent occurrence, and the prevailing clear weather favored heavy frost deposits, but the frosts of themselves did little or no damage as all vegetation was practically dead at the beginning of the month, except along the coast where winter truck made precarious growth. Lettuce and turnips were the only varieties of vegetables that did even fairly well.

The precipitation was generally deficient, with a few widely separated places that had normal, or slightly excessive amounts. A small part of the precipitation was in the form of snow that fell to a depth of about an inch at a few places, but was generally not more than a mere trace, and all of it melted rapidly and did not afford any protection to winter grain. The small amount of precipitation, following a deficiency in rainfall since August, caused all streams to reach unusually low stages.

Wheat and oats seeding made some progress during the month, but neither grain germinated favorably owing to the cold and dryness. Much wheat sown during the month did not come up, as the tender sprouts were killed by freezing before showing above ground. Oats that had come up from earlier sowings was winter-killed to a large extent and is in a poor condition. The condition of wheat is the poorest in appearance in many years, while the unfavorable weather restricted the acreage planted, as December is usually the most favorable month for sowing it. The dry soil rendered winter fallowing difficult, and but little was done. The cold weather was favorable for killing hogs.

Barometer and Wind Table for December, 1903.

| STATIONS               | BAROMETER. |          |         |        |            | WIND.  |            |        |            |        |
|------------------------|------------|----------|---------|--------|------------|--------|------------|--------|------------|--------|
|                        | Mean.      | Highest. | Lowest. | Range. | Direction. | Force. | Direction. | Force. | Direction. | Force. |
| Augusta, Ga. ....      | 30.16      | 30.44    | 29.70   | 9      | 144        | 5.9    | 36         | W.     | 4          | 20     |
| Charleston, S. C. .... | 30.16      | 30.43    | 29.62   | 9      | 144        | 9.8    | 34         | SW     | 1          | 20     |
| Charlotte, N. C. ....  | 30.14      | 30.51    | 29.62   | 25     | 144        | 6.9    | 5          | W.     | 1          | 20     |
| Columbia, S. C. ....   | 30.14      | 30.43    | 29.68   | 9      | 144        | 10.1   | 44         | W.     | 1          | 20     |
| Savannah, Ga. ....     | 30.16      | 30.41    | 29.66   | 9      | 144        | 8.0    | 34         | SW     | 1          | 20     |
| Wilmington, N. C. .... | 30.12      | 30.43    | 29.60   | 9      | 144        | 8.0    | 34         | SW     | 1          | 20     |
| Averages.....          | 30.15      | 30.49    | 29.60   | 9      | 6,000      | 8.0    | 44         | W.     | 1          | 20     |

## ADMINISTRATIVE.

The Annual Summary for 1903, to be issued shortly, will contain complete data for all except the following stations, namely: Aiken, Barksdale, Due West, Georgetown, Lugoff, Pinopolis, Sumter, Temperance, Walhalla and Walterboro. The rainfall data for Camden and Edisto are also incomplete. These breaks were largely unavoidable, and at six stations were due to changes of location of observers, necessitating their resigning, and at the rest were largely caused by sickness and unavoidable absence from home of the observers. At Walterboro the record is complete since observations were begun in May. For climatological purposes it is essential to have unbroken records.

No stations were discontinued, and no new stations were established. It is probable that the year 1904 will begin with the same list of stations maintained during 1903, although Temperance and Seivern may be discontinued, as the observers at those places have resigned, unless the efforts being made to secure new observers are successful. Longshore will be removed to Newberry. The distance between the two places is about nine miles. Observations will be resumed at Sumter in either January or February. The large percentage of full reports for the year is gratifying, and is evidence of the interest taken in the work by the voluntary observers of the South Carolina Section.

## ERRATA.

October, 1903, Monthly Report, page 5, Pinopolis mean temperature should be 61.9°. November, 1903, Monthly Report, pages 5 and 8, Winthrop College total precipitation 1.23 should be 1.26.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for December, 1903, was 41.0°, which is 5.2° below normal. The highest local mean was 47.0° at Beaufort; the lowest 34.9° at Greenville. The highest maximum was 72° at Bennettsville on the 9th, and at Gillisonville and Walterboro on the 25th; the lowest minimum was 10° at Spartanburg on the 27th, making the State range 62°. The greatest local monthly range was 54° at Bennettsville, the least was 39° at Winnsboro. The mean



of the daily maximum temperatures was  $52.5^{\circ}$ , and of the daily minimum temperatures was  $29.4^{\circ}$ , making the average daily range  $23.1^{\circ}$ .

Frosts, ice and frozen ground were of frequent occurrence in the interior sections and included the coast sections on the 3rd, 7th, 26th and 27th.

**Precipitation, in Inches.**

The precipitation averaged 1.95 inches, which is 0.88 below normal. The greatest local amount was 3.48 at Smiths Mills, the least was 0.57 at Barksdale. The greatest 24-hour fall was 2.00 inches at Smiths Mills on the 25th. The average number of days with 0.01, or more, precipitation was 6, ranging from 2 at Allendale to 10 at Conway.

Excessive Precipitation.—None.

Snow.—Light snow was recorded as follows: Barksdale, Due West, Longshore, Trenton, 9, 10; Batesburg, Clemson College, Gaffney, Saluda, 9; Bowman, Conway, Gillisonville, St. George, St. Matthews, Smiths Mills, Summerville, 2; Columbia, Greenville, Spartanburg, 2, 10; Cheraw, 3, 9; Effingham, 3; Kingstree, 2, 3; Liberty, 2, 9, 10, 19, 20; Little Mountain, 8; Lugoff, 2, 9, 10; Santuc, Society Hill, Winthrop College, Yorkville, 2, 9.

Sleet.—Sleet was recorded as follows: Aiken, Seivern, Spartanburg, 10; Anderson, Barksdale, Santuc, Yorkville, 2; Batesburg, Camden, Longshore, Society Hill, Stateburg, Trenton, 9; Bowman, Gillisonville, Summerville, 2; Clemson College, Walhalla, 19.

Weather.—The average number of clear days was 20, of partly cloudy 5, and of cloudy 6.

Winds.—The prevailing direction of the wind was from the west at 16 stations, from the southwest and north at 8, from the northwest at 6, from the northeast at 5, from the east at 2, and from the south at 1 station.

High Winds.—Beaufort, Walhalla, 20; Bowman, Heath Springs, 10; Columbia, 10, 13, 20, 25, 26; Charleston, 25; Gillisonville, 20, 25; Liberty, 10, 20; Longshore, 10, 20, 26, 27; Summerville, 10, 25, 28, 29.

**MISCELLANEOUS PHENOMENA (with dates).**

Lunar Halos.—Santuc, 8, 17.

Solar Halos.—Charleston, 8, 14; Santuc, 1; Stateburg, 12.

Dense Fogs.—Charleston, 25; Columbia, 4, 5; Conway, 18; Liberty, 13, 25, 26; Summerville, 24, 28, 30.

Thunderstorms.—Aiken, Blackville, Bowman, Seivern, Summerville, 25; being a total of 5 storms on one date.

**REMARKS BY OBSERVERS.**

Aiken.—There were 23 days this month that the minimum was  $32^{\circ}$ , or below. Thunder and lightning were observed on the 25th.—C. F. McGahan, M. D.

Barksdale.—Some small grain was killed by the freezing weather, especially oats that were slow in coming up. A small portion of the oats sown is up.—J. T. Garrett.

Beaufort.—Mean temperature was  $5.3^{\circ}$  below normal, accumulated deficiency for December  $164^{\circ}$ , and for the year 1903,  $449^{\circ}$ . Precipitation for the month 0.36 below normal, and since January 1, 1903, is 13.15 inches below normal. The month was pleasant, although steadily cooler than usual. Lettuce and turnips are doing fairly well.—S. M. Benton.

Bowman.—The month had an even temperature. Small grain is unusually backward, and made little or no growth.—Benj. O. Evans.

Due West.—Light snow fell on the 9th and 10th.—Rev. O. Y. Bonner.

Gillisonville.—The month was raw and very cold. There were 18 mornings with frost and ice, and frozen ground. Five-eighths of the oats sown during the month failed to germinate, and oats sown earlier are in poor condition.—Sam P. Saltus.

Heath Springs.—The weather during the month was dry and cold. The outlook for small grains is gloomy.—J. A. Weaner.

Liberty.—Clear and cold, but fine weather prevailed during the month. Wheat has come up very slowly, especially the late sowings. Turnips and winter vegetables were badly winter-killed. There were several snow-flurries, but only twice did enough fall to whiten the ground.—Jno. T. Boggs.

Little Mountain.—December was too dry for small grain. Late sown wheat came up to poor stands. Much of the oats was frozen.—Jno. M. Sease, M. D.

Longshore.—This was the coldest December on record at this station. Too dry for grain.—W. G. Peterson.

Lugoff.—Oats were badly damaged by the frequent freezing weather, and only a small acreage was sown. The weather was favorable for killing hogs and curing meat.—W. J. Burdell, M. D.

Society Hill.—Oats are backward, but stands are good notwithstanding the severity of the weather, the temperature having averaged  $5.5^{\circ}$  below normal.—Maj. J. J. Lucas.

Stateburg.—The weather conditions were very unfavorable for farm work during the entire month, and the acreage of wheat and oats is probably less than usual, and what was sown is in poorer condition. Some of the November sowing was killed by freezing just after germination had taken place.—W. W. Anderson, M. D.

Summerville.—Snow and sleet fell all day on the 2nd, but the ground was wet and they melted as they touched the earth. Heavy fog prevailed during the mornings of the 24th, 28th and 30th.—Miss L. R. Gadsden.



## CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER, 1903.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       | Sky.                     |                       |                        |                       | Observer. |                     |                       |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|--------------------------|-----------------------|------------------------|-----------------------|-----------|---------------------|-----------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall—centimet. | Number of rainy days. | Number of cloudy days. | Number of clear days. |           | Prevailing wind.    |                       |
| Aiken                                 | Aiken        | 565             | 2                       | 43.0                               |                            | 62       | 24    | 17      | 27    | 32                       | 2.06   |                            | 1.25                  |                          | 6                     | 26                     | 4                     | 1         | sw.                 | Dr. C. F. McElahan    |
| Allendale                             | Barnwell     | 186             | 15                      | 43.0                               | -3.1                       | 58       | *10   | 18      | 5     | 28                       | 1.47   | -0.75                      | 0.75                  |                          | 2                     | 24                     | 1                     | 3         |                     | C. A. Glover.         |
| Anderson                              | Anderson     | 704             | 2                       | 40.6                               | -3.4                       | 61       | 12    | 17      | 27    | 31                       | 1.80   | -1.11                      | 0.70                  |                          | 4                     | 26                     | 4                     | 1         | e.                  | R. B. Dean            |
| Angusta, Ga.                          | Richmond     | 134             | 32                      | 42.5                               | -5.2                       | 63       | 25    | 21      | 27    | 31                       | 1.64   | -1.77                      | 1.15                  |                          | 5                     | 18                     | 5                     | 8         | nw.                 | Weather Bureau.       |
| Barksdale                             | Laurens      | 780             | 2                       | 39.2                               |                            | 60       | 31    | 17      | 27    | 32                       | 0.57   |                            | 0.30                  | T.                       | 4                     | 24                     | 8                     | 2         | w.                  | J. T. Garrett.        |
| Batesburg                             | Lexington    | 656             | 15                      | 41.8                               | -4.4                       | 67       | 25    | 10      | 27    | 40                       | 2.33   | +0.28                      | 0.89                  | 0.2                      | 7                     | 20                     | 4                     | 7         | e.                  | E. J. Hite.           |
| Beaufort                              | Beaufort     | 28              | 17                      | 47.0                               | -5.3                       | 60       | 13    | 20      | 27    | 29                       | 2.05   | -0.36                      | 0.62                  |                          | 6                     | 17                     | 11                    | 3         | nw.                 | S. M. Benton.         |
| Bennettsville                         | Marlboro     |                 | 2                       | 42.0                               |                            | 72       | 9     | 18      | 18    | 44                       | 1.90   |                            | 0.75                  |                          | 6                     | 24                     | 3                     | 1         | n.                  | Jno. L. McCall.       |
| Blackville                            | Barnwell     | 206             | 15                      | 40.8                               | -6.1                       | 67       | 24    | 21      | 27    | 35                       | 2.31   | -1.30                      | 1.01                  |                          | 8                     | 19                     | 11                    | 1         | sw.                 | G. D. C. Lange        |
| Bowman                                | Orangeburg   | 160             | 2                       | 42.3                               |                            | 65       | *13   | 19      | 27    | 35                       | 2.19   |                            | 1.05                  | T.                       | 4                     | 19                     | 8                     | 4         | w.                  | B. O. Evans.          |
| Calhoun Falls                         | Abbeville    | 508             | 10                      |                                    |                            |          |       |         |       |                          | 1.41   | -2.23                      | 0.32                  |                          | 5                     | 27                     | 0                     | 1         | n.                  | P. J. Pfeiffer.       |
| Camden                                | Kershaw      | 222             | 37                      |                                    |                            |          |       |         |       |                          | 1.91   | -1.24                      | 0.82                  | T.                       | 6                     | 20                     | 3                     | 8         | s.                  | H. G. Garrison.       |
| Charleston                            | Charleston   | 48              | 31                      | 45.7                               | -5.8                       | 68       | 13    | 27      | 27    | 28                       | 1.81   | -1.43                      | 0.63                  |                          | 7                     | 14                     | 12                    | 5         | nw.                 | Weather Bureau.       |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 25                      | 38.6                               | -5.0                       | 58       | 24    | 18      | 27    | 28                       | 1.75   | -2.35                      | 0.63                  |                          | 7                     | 18                     | 4                     | 9         | sw.                 | Weather Bureau.       |
| Cheraw (1)                            | Chesterfield | 144             | 15                      | 39.0                               | -5.5                       | 64       | 24    | 18      | *18   | 37                       | 2.16   | -0.44                      | 0.57                  |                          | 7                     | 16                     | 4                     | 11        | n.                  | W. R. Godfrey.        |
| Cheraw (2)                            |              | 144             | 10                      |                                    |                            |          |       |         |       |                          | 2.22   | -0.90                      | 0.60                  | T.                       | 7                     | 20                     | 5                     | 6         | ne.                 | Jno. H. Powe.         |
| Clarks Hill                           | Edgefield    | 456             | 1                       | 41.6                               |                            | 63       | 24    | 18      | 27    | 30                       | 1.98   |                            | 0.79                  |                          | 5                     | 19                     | 3                     | 9         |                     | Wm. S. Middleton.     |
| Clemson College                       | Oconee       | 850             | 12                      | 38.6                               | -3.9                       | 63       | 31    | 14      | *1    | 38                       | 2.10   | -1.44                      | 0.80                  | T.                       | 6                     | 19                     | 3                     | 9         | w.                  | Prof. C. C. Newman.   |
| Columbia                              | Richland     | 351             | 10                      | 42.4                               | -5.5                       | 64       | 24    | 19      | 27    | 29                       | 1.70   | -1.24                      | 0.79                  | T.                       | 6                     | 17                     | 8                     | 6         | sw.                 | Central Office.       |
| Conway                                | Horry        | 25              | 12                      | 41.2                               |                            | 68       | *24   | 17      | 27    | 43                       | 3.35   | +0.79                      | 1.60                  | 0.6                      | 10                    | 19                     | 5                     | 7         | w.                  | McQ. Quattlebaum.     |
| *Darlington                           | Darlington   | 175             | 8                       | 41.0                               |                            | 66       | 24    | 16      | 18    | 40                       | 2.09   | -0.78                      | 0.87                  |                          | 6                     | 20                     | 6                     | 5         |                     | E. R. McIver.         |
| Due West                              | Abbeville    | 710             | 2                       | 41.6                               |                            | 61       | 25    | 17      | 27    | 32                       | 1.72   |                            | 0.44                  | T.                       | 5                     | 21                     | 4                     | 6         | w.                  | Rev. O. Y. Bonner.    |
| Edisto                                | Bamberg      | 127             | 10                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                          |                       |                        |                       |           | J. L. Padgett.      |                       |
| Ellingham                             | Florence     | 106             | 11                      |                                    |                            |          |       |         |       |                          | 2.63   | -0.58                      | 1.10                  | T.                       | 8                     | 21                     | 2                     | 8         | ne.                 | H. B. McCall.         |
| Florence                              | Florence     | 136             | 15                      | 40.5                               | -3.1                       | 68       | 24    | 19      | 27    | 40                       | 2.34   | -0.14                      | 0.83                  |                          | 5                     | 15                     | 9                     | 7         | n.                  | Howell DeBerry.       |
| Gaffney                               | Cherokee     | 893             | 7                       | 37.4                               |                            | 66       | 29    | 16      | 27    | 36                       | 1.45   | -2.11                      | 0.60                  | 0.6                      |                       |                        |                       |           |                     | B. F. Camp.           |
| Georgetown                            | Georgetown   | 12              | 10                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                          |                       |                        |                       |           | W. T. Turbeville.   |                       |
| Gillisonville                         | Hampton      | 50              | 8                       | 43.5                               | -4.8                       | 72       | 25    | 22      | *1    | 42                       | 1.69   | -2.43                      | 0.82                  | T.                       | 5                     | 21                     | 6                     | 4         | n.                  | Sam P. Saltus.        |
| Greenville                            | Greenville   | 980             | 11                      | 34.9                               | -6.6                       | 59       | 31    | 11      | 27    | 37                       | 2.32   | -0.98                      | 0.95                  | 1.0                      | 8                     | 18                     | 4                     | 9         | nw.                 | Mrs. S. A. Crittenden |
| Greenwood ++                          | Greenwood    | 671             | 15                      | 38.2                               | -4.5                       | 59       | *24   | 19      | *27   | 32                       | 1.14   | 2.20                       | 0.32                  |                          | 5                     | 22                     | 1                     | 8         | w.                  | M. M. Calhoun.        |
| Heath Springs                         | Lancaster    |                 | 2                       | 37.8                               |                            | 65       | 25    | 15      | 27    | 48                       | 1.70   |                            | 0.38                  |                          | 6                     | 20                     | 7                     | 4         | sw.                 | J. A. Weaver.         |
| Kings-tree (1)                        | Williamsburg | 54              | 15                      | 41.6                               | -5.5                       | 65       | 13    | 22      | *12   | 39                       | 2.49   | -0.56                      | 1.30                  | 1.3                      | 7                     | 19                     | 4                     | 8         |                     | W. H. Edwards.        |
| Kings-tree (2)                        |              | 54              | 9                       |                                    |                            |          |       |         |       |                          | 2.37   | -0.94                      | 1.26                  | 1.3                      | 7                     | 19                     | 4                     | 8         | ne.                 | W. H. Matthews.       |
| Liberty                               | Pickens      | 900             | 9                       | 38.4                               | -4.2                       | 61       | 31    | 16      | 27    | 39                       | 2.27   | -1.14                      | 0.82                  | 1.2                      | 4                     | 19                     | 5                     | 7         | w.                  | Jno. T. Boggs.        |
| Little Mountain                       | Newberry     | 711             | 10                      | 41.6                               | -5.3                       | 69       | 25    | 18      | 27    | 36                       | 1.91   | -1.07                      | 0.64                  | T.                       | 7                     | 17                     | 11                    | 3         | w.                  | John M. Sease, M. D.  |
| +Longshore                            | Newberry     | 530             | 10                      | 40.2                               | -6.0                       | 63       | 24    | 17      | 27    | 31                       | 1.41   | -1.83                      | 0.47                  | T.                       | 8                     | 20                     | 5                     | 6         | w.                  | W. G. Peterson.       |
| Lugoff                                | Kershaw      | 168             | 2                       | 40.4                               |                            | 65       | 24    | 16      | 27    | 33                       | 1.91   |                            | 0.74                  | T.                       | 6                     | 22                     | 4                     | 5         | nw.                 | W. J. Burdell, M. D.  |
| *Pinopolis                            | Berkeley     | 54              | 10                      | 44.5                               | -3.3                       | 66       | 25    | 24      | 2     | 29                       | 3.41   | +0.17                      | 1.85                  |                          | 6                     | 22                     | 5                     | 4         | nw.                 | E. P. Ravenel.        |
| St. Georges                           | Dorchester   | 109             | 15                      | 42.0                               | -5.4                       | 65       | 25    | 23      | *27   | 36                       | 2.71   | -0.75                      | 1.16                  | 1.0                      | 8                     | 19                     | 4                     | 8         |                     | W. B. Raysor.         |
| St. Matthews                          | Orangeburg   | 269             | 15                      | 42.1                               | -5.0                       | 65       | 13    | 24      | *27   | 33                       | 2.71   | -0.22                      | 1.30                  | 0.5                      | 8                     | 20                     | 4                     | 7         |                     | J. S. Warramaker.     |
| St. Stephens                          | Berkeley     | 73              | 11                      |                                    |                            |          |       |         |       |                          | 2.95   | -0.36                      | 1.42                  |                          | 9                     | 20                     | 4                     | 7         | n.                  | C. T. Shuler.         |
| Saluda                                | Saluda       | 536             | 2                       | 40.0                               |                            | 63       | 24    | 18      | 27    | 32                       | 1.80   |                            | 0.71                  | T.                       | 6                     | 21                     | 2                     | 8         | w.                  | Alvin Etheridge.      |
| Santuc                                | Union        | 512             | 10                      | 38.2                               | -5.3                       | 67       | 24    | 15      | 27    | 41                       | 1.60   | -1.59                      | 0.47                  | T.                       | 6                     | 22                     | 5                     | 4         | w.                  | E. W. Jeter.          |
| Savannah, Ga.                         | Chatham      | 71              | 34                      | 47.6                               | -4.8                       | 71       | 24    | 26      | 27    | 29                       | 1.34   | -1.87                      | 0.50                  |                          | 7                     | 17                     | 10                    | 4         | w.                  | Weather Bureau.       |
| Severn                                | Aiken        | 482             | 2                       | 39.7                               | -7.6                       | 65       | 24    | 18      | 26    | 39                       | 2.28   | 0.91                       | 1.02                  |                          | 5                     | 18                     | 3                     | 10        | n.                  | J. F. Lyles.          |
| Smiths Mills                          | Williamsburg | 62              | 8                       |                                    |                            |          |       |         |       |                          | 3.48   | 0.71                       | 2.00                  | 1.1                      | 7                     | 18                     | 4                     | 9         | n.                  | H. van Keuren.        |
| Society Hill                          | Darlington   | 192             | 12                      | 40.2                               | -5.5                       | 60       | *24   | 19      | 26    | 39                       | 2.08   | -0.70                      | 0.70                  | T.                       | 5                     | 21                     | 4                     | 6         | ne.                 | J. J. Lucas.          |
| Spartanburg                           | Spartanburg  | 875             | 12                      | 36.7                               | -6.9                       | 60       | 25    | 10      | 27    | 37                       | 1.82   | -0.76                      | 0.57                  | T.                       | 6                     | 24                     | 0                     | 7         |                     | F. P. Robinson.       |
| Stateburg                             | Sumter       | 500             | 23                      | 43.2                               | -4.4                       | 65       | 24    | 20      | 27    | 31                       | 2.02   | -0.96                      | 1.03                  |                          | 6                     | 16                     | 8                     | 7         | sw.                 | W. W. Anderson, M. D. |
| Summerville                           | Dorchester   | 75              | 6                       | 43.5                               | -5.3                       | 69       | 13    | 20      | 26    | 37                       | 2.60   | -1.42                      | 0.88                  | T.                       | 9                     | 18                     | 6                     | 7         | sw.                 | Miss L. R. Gadsden.   |
| Sumter                                | Sumter       | 169             | 2                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                          |                       |                        |                       |           | Chas. S. Kingsmore. |                       |
| Temperance                            | Marion       | 100             | 5                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                          |                       |                        |                       |           | J. R. Reaves.       |                       |
| +Trenton                              | Edgefield    | 620             | 10                      | 40.8                               | -7.4                       | 60       | 25    | 18      | 27    | 33                       | 2.37   | -0.96                      | 1.19                  | 0.7                      | 4                     | 19                     | 8                     | 4         | w.                  | C. A. Long.           |
| †Tulsa                                | Berkeley     | 85              | 17                      | 40.6                               | -8.0                       | 66       | 24    | 15      | 7     | 38                       | 3.08   | +0.05                      | 1.48                  |                          | 6                     | 25                     | 1                     | 5         | w.                  | Etsell Gaillard.      |
| Walhalla                              | Oconee       | 1061            | 13                      | 40.8                               | -3.5                       | 63       | 31    | 14      | 27    | 36                       | 2.92   | -0.06                      | 1.57                  |                          | 3                     | 22                     | 5                     | 4         |                     | J. D. Isbell.         |
| Walterboro                            |              |                 |                         | 45.9                               |                            | 72       | 13    | 23      | 27    | 41                       | 2.40   |                            | 1.14                  |                          | 7                     | 25                     | 4                     | 2         | w.                  | J. A. Westerberg.     |
| Wilmington, N. C.                     | New Hanover  | 52              | 34                      | 42.6                               | -5.7                       | 68       | 25    | 19      | 27    | 34                       | 2.35   | -0.63                      | 0.98                  |                          | 7                     | 16                     | 9                     | 6         | w.                  | Weather Bureau.       |
| Windsboro                             | Fairfield    | 545             | 14                      | 41.3                               | -5.4                       | 61       | 25    | 22      | 16    | 32                       | 1.30   | -1.50                      | 0.50                  |                          | 4                     | 24                     | 3                     | 4         | ne.                 | John W. Seigler.      |
| Winthrop College                      | York         | 690             | 4                       | 38.4                               | -8.0                       | 60       | 24    | 17      | 27    | 33                       | 1.93   | -0.91                      | 0.65                  | T.                       | 6                     | 20                     | 9                     | 2         | sw.                 | Geo. B. Green.        |
| Yemassee                              | Beaufort     | 23              | 8                       | 43.3                               | -4.8                       | 68       | 25    | 23      | 27    | 34                       | 2.26   | -1.34                      | 0.82                  |                          | 8                     | 19                     | 4                     | 8         |                     | J. G. Hutson.         |
| †Yorkville                            | York         | 660             | 15                      | 43.0                               | -3.1                       | 62       | 24    | 18      | 27    | 31                       | 2.17   | -0.81                      | 0.87                  | T.                       | 5                     | 17                     | 6                     | 8         | w.                  | J. R. Schorb.         |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 41.0                               | -5.2                       | 72       | *25   | 10      | 27    | 44                       | 1.95   | -0.88                      | 2.00                  | 0.2                      | 6                     | 20                     | 5                     | 6         | w.                  |                       |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.

++ Report from Greenwood received too late to be used in the Summary.

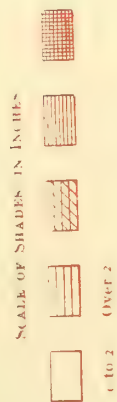
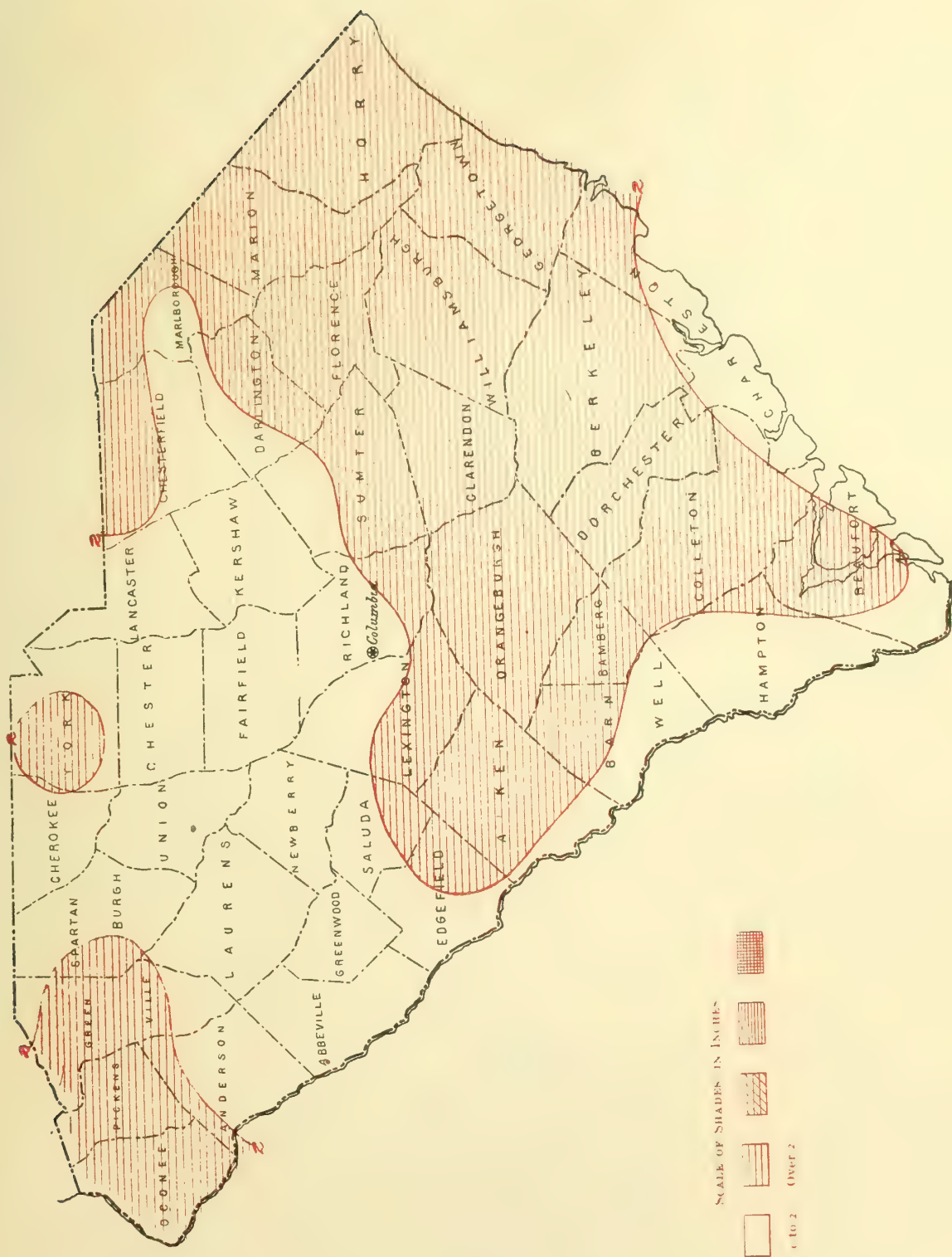


CITATIONS.

a indicates 1 day missing, b 2 days, etc.



# TOTAL PRECIPITATION FOR DECEMBER, 1903.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1903.

| STATIONS.         | Day of Month. |     |     |     |     |     |     |     |      |     |     |     |     |     |    |    |    |    |     |      |     |     |    |     |      |      |     |    |    |    |    | Total. |      |
|-------------------|---------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|----|----|----|----|-----|------|-----|-----|----|-----|------|------|-----|----|----|----|----|--------|------|
|                   | 1             | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9    | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18 | 19  | 20   | 21  | 22  | 23 | 24  | 25   | 26   | 27  | 28 | 29 | 30 | 31 |        |      |
| Aiken             |               |     |     |     | .01 |     |     |     | .20  | .05 |     |     | .30 |     |    |    |    |    |     | .25  |     |     |    |     | 1.25 |      |     |    |    |    |    | 2.06   |      |
| Allendale         |               |     |     |     |     |     |     |     | .72  |     |     |     |     |     |    |    |    |    |     |      |     |     |    |     | .75  |      |     |    |    |    |    | 1.47   |      |
| Anderson          |               |     |     |     | .57 |     |     |     | .22  |     |     | .40 |     |     |    |    |    |    | T.  |      |     |     |    |     | .70  |      |     |    |    |    |    | 1.80   |      |
| Augusta, Ga.      |               |     |     |     | .05 | T.  |     |     | .13  | T.  |     |     | .13 |     |    |    |    |    | T.  | .18  |     |     |    |     | 1.15 |      |     |    |    |    |    | 1.04   |      |
| Barksdale         |               |     |     |     | T.  |     |     |     | .10  | T.  |     |     | .10 |     |    |    |    |    |     | .30  |     |     |    |     | .07  |      |     |    |    |    |    | 0.57   |      |
| Batesburg         |               |     |     |     |     | .11 |     |     | .40  | .33 |     |     | .36 |     |    |    |    |    |     | .33  |     |     |    |     | .31  | .89  |     |    |    |    |    | 2.73   |      |
| Beaufort          | T.            | .48 |     |     |     | .08 |     |     | .62  |     |     |     |     |     |    |    |    |    |     | .33  |     |     |    |     | .47  | .07  |     |    |    |    |    | 2.05   |      |
| Bennettsville     |               |     |     |     | .05 | .35 |     |     | .26  | T.  |     |     | .15 |     |    |    |    |    |     | .34  |     |     |    |     | .75  |      |     |    |    |    |    | 1.90   |      |
| Blackville        |               |     |     |     | .05 | .05 |     |     | .17  | .05 |     |     | .13 |     |    |    |    |    |     | .13  | .17 |     |    |     | .03  | 1.58 |     |    |    |    |    | 2.31   |      |
| Bowman            |               |     |     |     |     | .22 |     |     |      |     |     | .12 |     |     |    |    |    |    |     | .80  |     |     |    |     | 1.05 |      |     |    |    |    |    | 2.19   |      |
| Calhoun Falls     |               |     |     |     | .26 |     |     |     | .27  |     |     |     | .32 |     |    |    |    |    |     | .32  |     |     |    |     | .24  |      |     |    |    |    |    | 1.41   |      |
| Camden            |               | T.  |     |     |     | .12 |     |     | .20  | .10 |     |     | .31 |     |    |    |    |    |     | .36  |     |     |    |     | T.   | .82  |     |    |    |    |    | 1.91   |      |
| Charleston        |               | .55 |     |     |     | .13 |     |     | .63  | T.  |     | T.  | .11 |     |    |    |    |    | T.  | .18  |     |     |    | T.  | .16  | .05  |     |    |    |    |    | 1.81   |      |
| Charlotte, N. C.  |               |     |     |     | .13 | .01 |     |     | .17  | T.  |     |     | .34 |     |    |    |    |    | .04 | .43  |     |     |    |     | .63  |      |     |    |    |    |    | 1.75   |      |
| Cheraw(1)         |               |     |     |     | .30 |     |     |     | .05  | .30 |     |     | .31 |     |    |    |    |    |     | .20  | .43 |     |    |     |      | .57  |     |    |    |    |    | 2.16   |      |
| Cheraw(2)         |               |     | T.  |     |     | .28 |     |     | .12  | .30 |     |     | .32 |     |    |    |    |    |     | .30  | .30 |     |    |     | T.   | .60  |     |    |    |    |    | 2.22   |      |
| Clark's Hill      |               |     |     |     | .18 |     |     |     | .79  |     |     |     | .10 |     |    |    |    |    |     | .32  |     |     |    |     | .59  |      |     |    |    |    |    | 1.98   |      |
| Clemson College   |               |     |     |     | .09 |     |     |     | .20  |     |     |     | .54 |     |    |    |    |    | .04 | .43  |     |     |    |     | .80  |      |     |    |    |    |    | 2.10   |      |
| Columbia          |               |     |     |     | .11 | .08 |     |     | .26  | T.  |     |     | .22 |     |    |    |    |    |     | .24  |     |     |    |     | .79  |      |     |    |    |    |    | 1.70   |      |
| Conway            |               | .06 | .20 |     |     | .25 |     |     | .12  | .35 |     |     | .20 |     |    |    |    |    | .12 | .45  |     |     |    | .04 | 1.56 |      |     |    |    |    |    | 3.35   |      |
| Darlington        |               | .01 |     |     |     | T.  | .19 |     | .24  |     |     |     | .26 |     |    |    |    |    | T.  | .52  |     |     |    |     | .87  |      |     |    |    |    |    | 2.09   |      |
| Due West          |               |     |     |     |     | .40 |     |     | .25  | T.  |     |     | .34 |     |    |    |    |    |     | .29  |     |     |    |     | .44  |      |     |    |    |    |    | 1.72   |      |
| Edisto            |               |     |     |     |     |     |     |     |      |     |     |     |     |     |    |    |    |    |     |      |     |     |    |     |      |      |     |    |    |    |    |        |      |
| Effingham         |               |     |     | T.  |     | .20 |     |     | .14  | .36 |     |     | .19 |     |    |    |    |    |     | .16  | .48 |     |    |     | .20  | .90  |     |    |    |    |    | 2.63   |      |
| Florence          |               |     |     |     |     | .24 |     |     |      | .48 |     |     | .22 |     |    |    |    |    |     | .55  |     |     |    |     | .83  |      |     |    |    |    |    | 2.32   |      |
| Gaffney           |               |     |     |     |     | .05 |     |     | .06  |     |     |     | .34 |     |    |    |    |    |     | .14  | .06 |     |    |     | .60  | .20  |     |    |    |    |    | 1.45   |      |
| Georgetown        |               |     |     |     |     |     |     |     | .50  |     |     |     | .02 |     |    |    |    |    |     | .25  |     |     |    |     | .82  |      |     |    |    |    |    | 1.69   |      |
| Gillisonville     |               | .10 |     |     |     |     |     |     | .19  | .10 | .01 |     | .60 |     |    |    |    |    |     | .45  | .02 |     |    |     | .80  | .15  |     |    |    |    |    | 2.32   |      |
| Greenville        |               |     |     |     |     |     |     |     | .26  | .15 |     |     | .21 |     |    |    |    |    |     | .32  |     |     |    |     |      |      |     |    |    |    |    | 1.14   |      |
| Greenwood         |               |     |     |     | .20 |     |     |     | .19  |     |     |     |     |     |    |    |    |    |     | .45  |     | .02 |    |     |      | .80  | .15 |    |    |    |    |        | 2.32 |
| Heath Springs     |               |     |     |     | .22 |     |     |     | .32  |     |     |     | .33 |     |    |    |    |    |     | .20  | .25 |     |    |     | .38  |      |     |    |    |    |    | 1.70   |      |
| Kingstree(1)      |               |     | T.  | .13 |     | .16 |     |     | .10  | .25 |     |     | .15 |     |    |    |    |    |     | .40  |     |     |    |     | T.   | 1.30 |     |    |    |    |    | 2.49   |      |
| Kingstree(2)      |               |     | T.  | .13 |     | .16 |     |     | .10  | .21 |     |     | .15 |     |    |    |    |    |     | .36  |     |     |    |     | T.   | 1.26 |     |    |    |    |    | 2.37   |      |
| Liberty           |               |     | T.  |     |     |     |     |     | .10  |     |     |     | .80 |     |    |    |    |    |     | .55  |     |     |    |     | .82  |      |     |    |    |    |    | 2.27   |      |
| Little Mountain   |               |     |     |     | .14 | .04 |     | T.  | .40  |     |     |     | .31 |     |    |    |    |    |     | .03  | .35 |     |    |     | .64  |      |     |    |    |    |    | 1.91   |      |
| Longshore         |               |     |     |     | .11 |     |     | .23 | .10  | T.  |     |     | .20 |     |    |    |    |    |     | .16  | .12 |     |    |     | .02  | .49  |     |    |    |    |    | 1.41   |      |
| Lugoff            |               |     |     |     | .06 | .34 |     |     | .27  |     |     |     | .22 |     |    |    |    |    |     | .28  |     |     |    |     | .74  |      |     |    |    |    |    | 1.91   |      |
| Pinopolis         |               |     |     |     | .13 |     |     |     | .53  |     |     |     | .15 |     |    |    |    |    |     | .65  |     |     |    |     | 1.85 |      |     |    |    |    |    | 3.41   |      |
| St. Georges       |               |     |     |     | .10 |     |     |     | .16  | .94 |     |     | .15 |     |    |    |    |    |     | .04  | .11 |     |    |     | T.   | 1.16 |     |    |    |    |    | 2.71   |      |
| St. Matthews      |               |     |     |     | .08 |     |     |     | .10  | .85 |     |     | .16 |     |    |    |    |    |     | .02  | .09 |     |    |     | T.   | 1.30 |     |    |    |    |    | 2.71   |      |
| St. Stephens      |               |     |     |     |     | .05 |     |     | .06  |     |     |     | .34 |     |    |    |    |    |     | .14  | .06 |     |    |     | .60  | .20  |     |    |    |    |    | 1.45   |      |
| Saluda            |               |     |     |     | .08 | .05 |     |     | .46  |     |     |     | .21 |     |    |    |    |    |     | .29  |     |     |    |     | .71  |      |     |    |    |    |    | 1.80   |      |
| Santuc.           |               |     |     |     | .12 | .05 |     |     | .28  |     |     |     | .26 |     |    |    |    |    |     | .42  |     |     |    |     | .47  |      |     |    |    |    |    | 1.60   |      |
| Savannah, Ga.     | T.            | .27 |     |     |     | .02 |     |     | .50  |     |     |     | .03 |     |    |    |    |    |     | .16  |     |     |    |     | .29  | .07  |     |    |    |    |    | 1.34   |      |
| Seivern           |               |     |     |     |     | .41 |     |     | .25  |     |     |     | .30 |     |    |    |    |    | .30 |      |     |     |    |     | 1.02 |      |     |    |    |    |    | 2.28   |      |
| Smiths Mills      |               |     | T.  | .11 |     | T.  | .30 |     | .35  | .10 |     |     | .42 |     |    |    |    |    |     | .20  | T.  |     |    |     |      | 2.00 |     |    |    |    |    | 3.48   |      |
| Society Hill      |               |     | T.  |     |     |     | .36 |     | .24  |     |     |     | .16 |     |    |    |    |    |     | .62  |     |     |    |     | .70  |      |     |    |    |    |    | 2.08   |      |
| Spartanburg       |               |     | T.  |     |     |     |     |     | .05  | .15 |     |     | .37 |     |    |    |    |    |     | .48  |     |     |    |     | .57  | .20  |     |    |    |    |    | 1.82   |      |
| Stateburg         |               |     |     |     | .05 | .02 |     |     | .24  |     |     |     | .21 |     |    |    |    |    |     | .37  |     |     |    |     | 1.03 |      |     |    |    |    |    | 2.02   |      |
| Summerville       | .08           | .31 |     |     | .09 |     |     |     | .22  | .44 |     |     | .12 |     |    |    |    |    |     | T.   | .44 |     |    |     | .02  | .88  |     |    |    |    |    | 2.60   |      |
| Sumter            |               |     |     |     |     |     |     |     |      |     |     |     |     |     |    |    |    |    |     |      |     |     |    |     |      |      |     |    |    |    |    |        |      |
| Temperance        |               |     |     |     |     |     |     |     |      |     |     |     |     |     |    |    |    |    |     |      |     |     |    |     |      |      |     |    |    |    |    |        |      |
| Trenton           |               |     |     |     |     | .14 |     |     | 1.19 | T.  |     |     |     |     |    |    |    |    |     | .36  |     |     |    |     | .68  |      |     |    |    |    |    | 2.37   |      |
| Trial             |               |     |     |     |     | .14 |     |     | .38  |     |     |     | .20 |     |    |    |    |    |     | .38  |     |     |    |     | 1.48 |      |     |    |    |    |    | 3.08   |      |
| Walhalla          |               |     |     |     |     |     |     |     |      |     |     |     | .88 |     |    |    |    |    |     | 1.57 |     |     |    |     | .47  |      |     |    |    |    |    | 2.92   |      |
| Walterboro        |               | .19 |     |     |     | .06 |     |     | .56  |     |     |     | .05 |     |    |    |    |    |     | T.   | .35 |     |    |     | 1.14 | .05  |     |    |    |    |    | 2.40   |      |
| Wilmington, N. C. |               | .47 | .06 |     |     | .17 |     |     | .29  |     |     |     | .10 |     |    |    |    |    |     | .28  |     |     |    |     | T.   | .98  | T.  |    |    |    |    | 2.35   |      |
| Winnsboro         |               |     |     |     |     |     |     | .50 |      |     |     |     | .33 |     |    |    |    |    |     | .36  |     |     |    |     | .15  |      |     |    |    |    |    | 1.34   |      |
| Winthrop College  |               |     |     |     | .17 | .08 |     |     | .22  | T.  |     |     | .30 |     |    |    |    |    |     | .47  |     |     |    |     | .65  |      |     |    |    |    |    | 1.93   |      |
| Yemassee          | .09           | .11 |     |     |     | .05 |     |     | .15  | .50 |     |     | .04 | .05 |    |    |    |    |     | T.   | .47 | .50 |    |     | T.   | .82  |     |    |    |    |    | 2.26   |      |
| Yorkville         |               |     |     |     | .14 |     |     |     | .31  |     |     |     | .38 |     |    |    |    |    |     | .47  |     |     |    |     | .87  |      |     |    |    |    |    | 2.17   |      |

T indicates trace, less than .01 inch.



7-11-75  
150

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR JANUARY, 1904.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF  
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BY

J. W. BAUER,  
SECTION DIRECTOR.

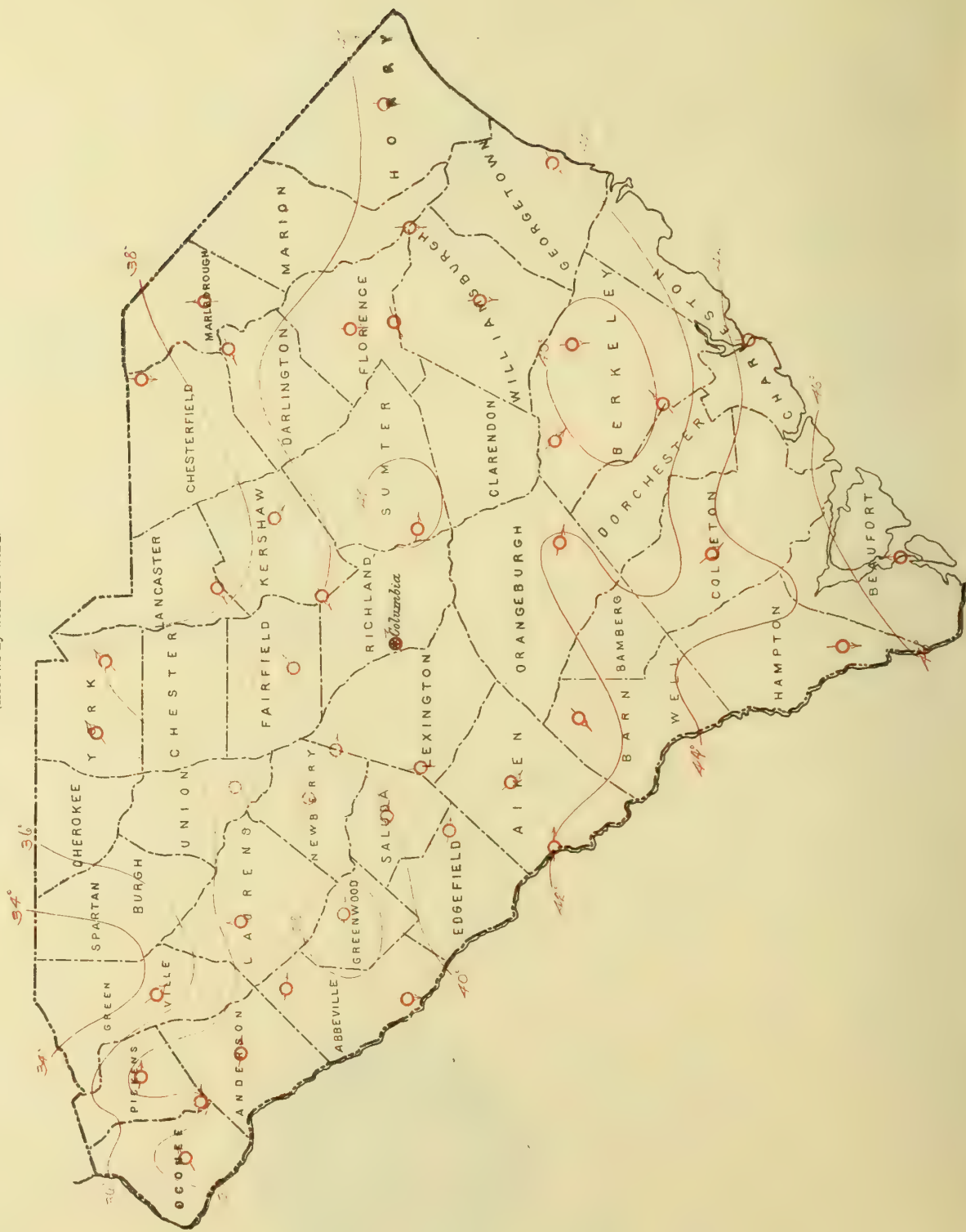


RALEIGH, N. C.:  
WEATHER BUREAU OFFICE.  
1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JANUARY, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. VII. COLUMBIA, S. C., JANUARY, 1904. No. 1.

## PROGRESS OF FARMWORK.

January, like the three preceding months, was unusually cold, and ranks among the coldest Januaries of record, with the same month in the years 1872, 1886 and 1893, that had equally low or lower temperatures. There were no extremely cold days, or very warm ones, although the temperature ranged above the normal from the 9th to the 11th and again from the 20th to the 23rd. The State minimum of 8° has been exceeded nearly every January for which records are available. It was a steady, persistent low temperature, together with a period of unusually low maximum temperatures during the last four days, that reduced the average temperature 4.5° below the normal for the month. There were frequent ground freezes and frosts, with alternate thawing, but it does not appear that these conditions damaged wheat and oats materially.

The precipitation was deficient over practically the entire State, but the amounts were nearly of equal value in all sections, ranging between 2 and 4 inches, except over three small areas where the amounts were less than 2 inches, and over two areas where they were slightly above 4 inches. Some of the precipitation was in the form of snow and sleet, but only during the last four days, and over the western third of the State, did the snow remain on the ground long enough to afford protection to winter grains. Wheat that was sown in December and failed to germinate, came up to thin stands during the middle of this month, while wheat already up held its condition fairly well but is unusually small. The oats crop was variously affected by the severe weather, having suffered no injury in places, and was nearly ruined in other places. Like wheat, oats are small for the season. The weather was uniformly too cold for growth of grain and truck crops. Some Spring oats were sown.

Some plowing was done preparatory to sowing oats and to planting early corn and cotton, but less than is usual to the month. Other farmwork was practically at a standstill.

Barometer and Wind Table for January, 1904.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.15      | 30.69    | 19    | 29.69   | 11    | 5,113           | 6.9             | 37                | NW.        | 3     |
| Charleston, S. C. .... | 30.14      | 30.70    | 19    | 29.72   | 11    | 8,471           | 11.5            | 35                | N.         | 7     |
| Charlotte, N. C. ....  | 30.14      | 30.79    | 19    | 29.63   | 2     | 5,727           | 7.7             | 35                | SW.        | 22    |
| Columbia, S. C. ....   | 30.13      | 30.73    | 19    | 29.65   | 11    | 7,644           | 10.3            | 36                | S.         | 22    |
| Savannah, Ga. ....     | 30.15      | 30.63    | 19    | 29.72   | 11    | 6,609           | 8.9             | 29                | SW.        | 11    |
| Wilmington, N. C. .... | 30.12      | 30.75    | 19    | 29.70   | 2     | 6,829           | 9.2             | 33                | SW.        | 11    |
| Averages .....         | 30.14      | 30.79    | 19    | 29.63   | 2     | 6,749           | 9.1             | 35                | N.         | 3     |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for January, 1904, was 40.2°, which is 4.5° below normal. The highest local mean was 46.2° at Beaufort; the lowest 34.0° at Greenville. The highest maximum was 74° at Yemassee on the 21st, the lowest minimum was 8° at Clemson College on the 5th and at Darlington on the 6th, making the State range 66°. The greatest local monthly range was 64° at Darlington, the least was 44° at Beaufort. The mean of the daily maximum temperatures was 50.5°, and of the daily minimum temperatures was 30.0°, making the average daily range 20.5°.

## Precipitation, in Inches.

The precipitation averaged 2.97 inches, which is 0.59 below normal. The greatest local amount was 4.78 at Summerville, the least was 0.82 at Bennettsville. The greatest 24-hour fall was 2.81 inches at Summerville on the 22th. The average number of days with 0.01, or more, precipitation was 8, ranging from 2 at Bennettsville to 13 at Camden and Summerville.

Excessive Precipitation.—Gillisonville, 22nd, 2.55 in 24 hours; Heath Springs, 22nd, 2.45 in 7 hours; Summerville, 22nd, 2.81 in 24 hours; Yemassee, 22nd, 2.56 in 12 hours.

Snow.—There were three snow storms during January. The first on the 4-5th was heaviest in the eastern parts of the State, particularly over the northeastern counties, with a maximum fall of 3 inches at Conway (Horry Co.) and none in the western counties. The second storm occurred on the 13th and was confined in its area to the extreme northwestern border counties with generally only a trace except on the mountain tops that became white. The third storm occurred on the 28th, continuing intermittently to the 31st. The snow-fall from this storm was heaviest over the northwestern counties where it fell to a depth of from one to over five inches, with a maximum depth of 5.5 inches at Walhalla, (Oconee Co.). In the central and eastern counties the precipitation during this storm was in the form of sleet and rain that froze as it fell, coating outdoor objects with ice from a quarter to a half inch in thickness. The ice melted on the 31st. The snow did not melt during the month.

Sleet.—The southeastern counties had sleet on the 4th. Places in the western counties, in the Wateree and the central Savannah valleys on the 6-7th, while on the 28th sleet fell



over the entire State except the extreme southeastern coast region. The sleet was mixed with snow in the western and with rain in the central and eastern sections.

Weather.—The average number of clear days was 15, of partly cloudy 5, and of cloudy 11.

Winds.—The prevailing direction of the wind was from the north at 12 stations, from the west at 11, from the southwest at 8, from the northeast at 7, from the northwest at 5, from the south at 2, and from the east at 1 station.

High Winds.—Bowman, 22; Columbia, 13, 22, 28; Charleston, 8; Gillisonville, 10, 21, 22; Lugoff, 4; Summerville, 3, 4, 10, 11, 12, 20, 21, 22, 27.

#### MISCELLANEOUS PHENOMENA (with dates).

Coronæ.—Santuc, 1, 2, 23.

Solar Halos.—Charleston, 1, 2, 3, 7, 12, 13, 23; Stateburg, 10, 16, 26.

Lunar Halos.—Beaufort, 3; Charleston, 1, 3, 4, 6, 25, 26; Santuc, 26; Stateburg, 23.

Dense Fogs.—Aiken, 12, 30, 31; Barksdale, Little Mountain, 11, 31; Beaufort, 21; Camden, 14; Charleston, 18, 21; Cheraw, 12, 30, 31; Columbia, 11, 12, 17, 30; Clemson College, 16, 31; Gaffney, 8, 12; Greenville, 12, 31; Liberty, 2, 10, 12, 16, 31; Lugoff, Newberry, Santuc, 17; Saluda, 12, 17; Smiths Mills, 30; Society Hill, 11th; Stateburg, 17, 30, 31; Summerville, 1, 4, 7, 8, 21, 22, 28, 29; Walterboro, 12; Winthrop College, 11, 12; Yorkville, 8, 12, 31.

Thunderstorms.—Aiken, Trial, 11; Beaufort, Bowman, Newberry, Summerville, 10, 22; Cheraw, Clemson College, Little Mountain, Lugoff, Trenton, 22; Gillisonville, 10; Saluda, 16, 22. Summarized by dates, there were 5 on the 10th, 4 on the 11th, 1 on the 16th, 12 on the 22d, making a total of 22 thunderstorms on 4 dates. There were thunderstorms also at Charleston on the 10th, 11th, 22d, 23d, and at Columbia on the 11th, 22nd.

#### REMARKS BY OBSERVERS.

Aiken.—Month remarkably cold, having been  $5.1^{\circ}$  below normal. Ice storm on the 28th, that covered outdoor objects to considerable thickness and remained to the close of the the month.—C. F. McGahan, M. D.

Barksdale.—The month closed with rough weather—rain, snow and ice, that froze on trees, etc., prevailing, that made a beautiful frosting. Grain is small and has poor stands.—J. T. Garrett.

Beaufort.—Mean temperature was  $4.1^{\circ}$  below normal. The accumulated deficiency in temperature since December 1st (seasonal) is  $294.4^{\circ}$ . Precipitation 1.26 in excess of normal. The cold has been persistent, but no very low temperatures were recorded. Oats, turnips and lettuce have been retarded in growth, but not killed.—S. M. Benton.

Bowman.—The month was severely cold, and had few

pleasant days. Small grain was not materially injured. Spring oats are being sown.—B. O. Evans.

Cheraw.—Ice remained on the ground from the 28th to the close of the month, in places having northern exposures.—W. R. Godfrey.

Gillisonville.—The month was cold and wet. Farmwork has started and made fair progress. Laborers scarce.—Sam P. Saltus.

Heath Springs.—Some plowing was done. Small grain is backward. Temperature below normal.—J. A. Weaner.

Liberty.—The cold was persistent, and the ground frozen a large part of the month. But little plowing was done. Wheat appears to be damaged by the continued freezing weather, although late sown seems to be better than that sown early.—Jno. T. Boggs.

Lugoff.—Farmwork made practically no progress. The oats crop is probably ruined by frequent freezes.—W. J. Burdell, M. D.

Newberry.—The month was cold, with little precipitation except on the 22nd. The oats crop was badly damaged. Wheat is backward.—W. G. Peterson.

Santuc.—Wild geese observed going South on the 12th. The precipitation on the 28th consisted of sleet and rain, that froze, causing a thin ice coating on trees, etc. The severe cold has greatly damaged oats.—E. W. Jeter.

Society Hill.—Temperature was  $3.9^{\circ}$  below normal, and adverse to the oats crop, that is not promising. Ploughing for corn and cotton has begun, to a limited extent.—Maj. J. J. Lucas.

Stateburg.—The month was unfavorable for outdoor farm work, and not much was done. Some ploughing has been done on hills and well drained uplands. The temperature averaged below freezing on the last four days.—W. W. Anderson, M. D.

Summerville.—Winds that blew down fences and trees occurred during the month.—Miss Lela R. Gadsden.

#### ERRATA.

The following correction should be made in the December 1903, Monthly Report: Page 5, mean temperatures, Aiken 43.0 should be 42.3; Clemson College, 38.5 should be 38.9; Florence, 40.5 should be 40.4; Little Mountain 41.6 should be 41.8; Pinopolis, 44.5 should be 42.0; Summerville, 43.5 should be 43.6; Yorkville, 43.0 should be 41.0. Page 5, Anderson, date of maximum temperature 12th, should be 13th. Page 6, maximum temperature, Clarks Hill, on the 11th 43 should be 53; Clemson College, maximum temperature on the 4th, 53 should be 59; Florence, minimum temperature on the 27th, 17 should be 19, and on the 30th, 23 should be 32; Little Mountain, maximum temperature on the 10th, 4 should be 46; Yorkville, minimum temperature on the 30th 30 should be 32. Page 6, Clemson College, mean maximum 51.5 should be 52.2; Florence, mean minimum 27.8 should be 27.5; Little Mountain, mean maximum 52.4 should be 52.7; Yorkville, mean minimum 34.5 should be 30.5.



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1904.

| STATIONS.                             | Counties.         | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       | Sky.                       |                    |                    |                            | Observers. |                       |                               |                 |
|---------------------------------------|-------------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|------------|-----------------------|-------------------------------|-----------------|
|                                       |                   |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. |            | Number overcast days. | Prevailing direction of wind. |                 |
| Aiken.....                            | Aiken.....        | 565             | 3                       | 40.8                               | —5.9                       | 70       | 21    | 17      | 5     | 35                       | 2.85   | —1.26                      | 1.30                  | T.                         | 5                  | 23                 | 4                          | 4          | nw.                   | Dr. C. F. McGahan.            |                 |
| Allendale.....                        | Barnwell.....     | 186             | 16                      | 44.8                               | +1.0                       | 70       | 21    | 21      | 6     | 33                       | 3.30   | +0.36                      | 0.82                  | .....                      | 5                  | 19                 | 0                          | 12         | .....                 | C. A. Glover.                 |                 |
| Anderson.....                         | Anderson.....     | 764             | 3                       | 39.4                               | —2.0                       | 65       | 9     | 15      | *5    | 34                       | 2.61   | —3.48                      | 1.05                  | 2.0                        | 5                  | 18                 | 7                          | 6          | w.                    | R. B. Dean.                   |                 |
| Augusta, Ga.....                      | Richmond.....     | 134             | 33                      | 42.0                               | —4.6                       | 70       | 21    | 19      | 5     | 32                       | 2.61   | —1.86                      | 1.38                  | .....                      | 11                 | 12                 | 9                          | 10         | w.                    | Weather Bureau.               |                 |
| Barksdale.....                        | Laurens.....      | 780             | 3                       | 39.6                               | .....                      | 66       | 21    | 15      | 4     | 31                       | 1.90   | .....                      | 0.96                  | .....                      | 7                  | 15                 | 7                          | 9          | h.                    | J. T. Garrett.                |                 |
| Batesburg.....                        | Lexington.....    | 656             | 16                      | 40.5                               | —5.7                       | 69       | 21    | 14      | 5     | 37                       | 3.64   | —0.30                      | 0.98                  | T.                         | 8                  | 15                 | 3                          | 16         | n.                    | E. J. Hite.                   |                 |
| Beaufort.....                         | Beaufort.....     | 28              | 18                      | 46.2                               | —4.1                       | 66       | 1     | 22      | 6     | 28                       | 4.01   | +1.26                      | 1.09                  | .....                      | 11                 | 14                 | 8                          | 9          | sw.                   | S. M. Benton.                 |                 |
| Bennettsville.....                    | Marlboro.....     | 3               | 3                       | 42.0                               | .....                      | 70       | 22    | 11      | 6     | 39                       | 0.82   | .....                      | 0.72                  | 1.0                        | .....              | 2                  | 27                         | 2          | 2                     | sw.                           | Jno. L. McCall. |
| Blackville.....                       | Barnwell.....     | 296             | 16                      | 41.4                               | —4.5                       | 72       | 21    | 17      | 6     | 44                       | 2.53   | —0.97                      | 1.47                  | 0.2                        | 10                 | 12                 | 11                         | 8          | ne.                   | G. D. C. Lange.               |                 |
| Bowman.....                           | Orangeburg.....   | 160             | 3                       | 42.6                               | .....                      | 69       | 22    | 15      | 6     | 34                       | 4.26   | .....                      | 1.85                  | 1.0                        | .....              | 8                  | 16                         | 7          | 8                     | w.                            | B. O. Evans.    |
| Calhoun Falls.....                    | Abbeville.....    | 508             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.59   | —2.50                      | 0.96                  | .....                      | 4                  | 21                 | 0                          | 10         | h.                    | P. J. Pieher.                 |                 |
| Camden.....                           | Kershaw.....      | 222             | 38                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.50   | +0.16                      | 1.10                  | 1.3                        | 13                 | 11                 | 2                          | 18         | ne.                   | H. G. Carrison.               |                 |
| Charleston.....                       | Charleston.....   | 48              | 35                      | 45.2                               | —4.8                       | 68       | 22    | 23      | 5     | 28                       | 3.47   | —0.54                      | 2.14                  | .....                      | 12                 | 9                  | 13                         | 9          | h.                    | Weather Bureau.               |                 |
| Charlotte.....                        | Mecklenburg.....  | 808             | 26                      | 37.3                               | —3.9                       | 62       | 21    | 14      | 5     | 27                       | 1.38   | —3.76                      | 0.81                  | .....                      | 6                  | 13                 | 6                          | 12         | sw.                   | Weather Bureau.               |                 |
| Charlotte, N. C.....                  | Chesterfield..... | 144             | 16                      | 37.8                               | —4.8                       | 70       | 22    | 14      | 6     | 44                       | 3.20   | —0.11                      | 1.20                  | T.                         | 9                  | 11                 | 1                          | 19         | n.                    | W. R. Godfrey.                |                 |
| Cheraw (1).....                       | .....             | 144             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 2.05   | +0.09                      | 1.20                  | 0.9                        | 11                 | 16                 | 3                          | 12         | h.                    | Jno. H. Power.                |                 |
| Cheraw (2).....                       | Edgefield.....    | 456             | 2                       | 41.0                               | .....                      | 68       | 21    | 17      | 5     | 30                       | 2.97   | .....                      | 1.51                  | T.                         | 7                  | 10                 | 6                          | 15         | .....                 | Wm. S. Middleton.             |                 |
| Clarks Hill.....                      | Oconee.....       | 850             | 13                      | 38.1                               | —3.8                       | 65       | 22    | 8       | 5     | 37                       | 3.84   | —0.79                      | 1.30                  | 3.0                        | 7                  | 9                  | 10                         | 12         | w.                    | Prof. C. C. Newman.           |                 |
| Clemson College.....                  | Richland.....     | 351             | 17                      | 41.5                               | —4.1                       | 68       | 21    | 18      | 5     | 33                       | 2.62   | —1.18                      | 0.85                  | T.                         | 11                 | 9                  | 8                          | 14         | sw.                   | Central Office.               |                 |
| Columbia.....                         | Horry.....        | 25              | 13                      | 40.2                               | .....                      | 71       | *2    | 10      | 6     | 43                       | 3.03   | —0.71                      | 1.46                  | 3.6                        | 9                  | 18                 | 5                          | 8          | n.                    | McQ. Quattlebaum.             |                 |
| +Darlington.....                      | Darlington.....   | 175             | 9                       | 40.8                               | .....                      | 72       | 22    | 8       | 6     | 41                       | 2.49   | +0.17                      | 0.91                  | 2.5                        | 7                  | 17                 | 4                          | 10         | .....                 | E. R. McIver.                 |                 |
| Dillon.....                           | Marion.....       | 100             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....      | .....                 | A. E. Rowell.                 |                 |
| Due West.....                         | Abbeville.....    | 740             | 3                       | 39.4                               | .....                      | 65       | 21    | 16      | 5     | 30                       | 2.32   | .....                      | 1.42                  | .....                      | 8                  | 16                 | 5                          | 10         | w.                    | Rev. O. Y. Bonner.            |                 |
| Edisto.....                           | Bamberg.....      | 127             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....      | .....                 | J. L. Padgett.                |                 |
| Ellingham.....                        | Florence.....     | 106             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.20   | —0.22                      | 0.97                  | 3.0                        | 10                 | 15                 | 3                          | 13         | ne.                   | H. B. McCall.                 |                 |
| Florence.....                         | Florence.....     | 136             | 16                      | 40.2                               | —3.4                       | 72       | 22    | 9       | 5     | 47                       | 2.12   | —0.42                      | 1.25                  | 2.0                        | 5                  | 17                 | 5                          | 9          | n.                    | Howell DeBerry.               |                 |
| Gaffney.....                          | Cherokee.....     | 893             | 8                       | 36.2                               | .....                      | 65       | *1    | 10      | 6     | 40                       | 1.50   | —1.98                      | 0.88                  | 3.0                        | 7                  | .....              | .....                      | .....      | .....                 | B. F. Camp.                   |                 |
| Georgetown.....                       | Georgetown.....   | 12              | 11                      | 41.8                               | —5.8                       | 70       | *22   | 17      | 7     | 34                       | 3.50   | —0.37                      | 1.50                  | 2.5                        | 5                  | 25                 | 0                          | 6          | ne.                   | W. T. Turbeville.             |                 |
| Gillisonville.....                    | Hampton.....      | 50              | 9                       | 44.2                               | —3.9                       | 72       | 2     | 19      | 6     | 40                       | 4.36   | +2.25                      | 2.55                  | T.                         | 7                  | 13                 | 10                         | 8          | n.                    | Sam P. Saltus.                |                 |
| Greenville.....                       | Greenville.....   | 989             | 12                      | 34.0                               | —6.8                       | 62       | *1    | 9       | *6    | 41                       | 2.25   | —2.42                      | 0.80                  | 3.5                        | 8                  | 14                 | 1                          | 16         | nw.                   | Mrs. S. A. Crittenden         |                 |
| Greenwood +.....                      | Greenwood.....    | 671             | 16                      | 36.6                               | —5.0                       | 66       | 21    | 16      | 5     | 46                       | 2.41   | —1.35                      | 1.58                  | .....                      | 5                  | 17                 | 0                          | 14         | w.                    | M. M. Calhoun.                |                 |
| Heath Springs.....                    | Lancaster.....    | 3               | 3                       | 37.4                               | .....                      | 66       | 23    | 11      | 6     | 39                       | 4.56   | .....                      | 2.45                  | .....                      | 6                  | 13                 | 8                          | 8          | ne.                   | J. A. Weaver.                 |                 |
| Kingstree (1).....                    | Williamsburg..... | 54              | 16                      | 41.3                               | —5.3                       | 70       | 22    | 18      | *5    | 36                       | 3.78   | +0.48                      | 1.51                  | 2.5                        | 9                  | 15                 | 6                          | 10         | .....                 | W. H. Edwards.                |                 |
| Kingstree (2).....                    | .....             | 54              | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.78   | +0.56                      | 1.55                  | 2.6                        | 9                  | 12                 | 10                         | 9          | n.                    | W. H. Matthews.               |                 |
| Liberty.....                          | Pickens.....      | 900             | 10                      | 39.6                               | —1.3                       | 64       | *1    | 10      | 16    | 35                       | 2.94   | —2.31                      | 1.50                  | 3.0                        | 7                  | 16                 | 7                          | 8          | w.                    | Jno. T. Boggs.                |                 |
| +Little Mountain.....                 | Newberry.....     | 711             | 11                      | 39.8                               | —5.5                       | 67       | 21    | 15      | 5     | 32                       | 2.63   | —0.80                      | 1.37                  | T.                         | 9                  | 9                  | 11                         | 11         | w.                    | John M. Sease, M. D.          |                 |
| Lugoff.....                           | Kershaw.....      | 168             | 3                       | 38.2                               | .....                      | 68       | 21    | 12      | 6     | 34                       | 3.55   | .....                      | 1.58                  | T.                         | 6                  | 17                 | 1                          | 13         | nw.                   | W. J. Burdell, M. D.          |                 |
| Newberry.....                         | Newberry.....     | 502             | 0                       | 38.6                               | —3.9                       | 68       | 21    | 14      | 6     | 38                       | 3.66   | —0.62                      | 2.20                  | 0.5                        | 9                  | 13                 | 2                          | 16         | sw.                   | W. G. Peterson.               |                 |
| +Pinopolis.....                       | Berkeley.....     | 54              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 2.45   | —0.70                      | 0.87                  | 1.1                        | 11                 | 13                 | 6                          | 12         | .....                 | E. P. Ravenel.                |                 |
| St. Georges.....                      | Dorchester.....   | 109             | 16                      | 41.2                               | —5.2                       | 67       | 22    | 18      | *5    | 38                       | 3.07   | +0.74                      | 1.06                  | 1.5                        | 10                 | 10                 | 7                          | 14         | .....                 | W. B. Raynor.                 |                 |
| St. Matthews.....                     | Orangeburg.....   | 269             | 16                      | 41.0                               | —5.9                       | 68       | *21   | 18      | *5    | 31                       | 3.47   | +0.74                      | 1.06                  | 1.5                        | 10                 | 10                 | 7                          | 14         | .....                 | J. S. Warnamaker.             |                 |
| St. Stephens.....                     | Berkeley.....     | 73              | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.40   | +0.07                      | 1.96                  | 2.0                        | 9                  | 14                 | 5                          | 12         | n.                    | C. T. Shuler.                 |                 |
| Saluda.....                           | Saluda.....       | 536             | 3                       | 40.1                               | .....                      | 68       | 21    | 12      | 6     | 36                       | 2.82   | .....                      | 1.35                  | .....                      | 12                 | 16                 | 3                          | 12         | w.                    | Alvin Etheridge.              |                 |
| Sautuc, b.....                        | Union.....        | 512             | 11                      | 38.0                               | —4.5                       | 66       | 23    | 9       | 6     | 36                       | 2.35   | —1.26                      | 1.77                  | 0.2                        | 10                 | 14                 | 6                          | 11         | ne.                   | E. W. Jeter.                  |                 |
| Savannah, Ga.....                     | Chatham.....      | 71              | 35                      | 46.4                               | —4.6                       | 70       | 2     | 23      | 5     | 26                       | 3.77   | +0.50                      | 2.15                  | .....                      | 13                 | 11                 | 11                         | 9          | n.                    | Weather Bureau.               |                 |
| Seivern.....                          | Aiken.....        | 482             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....      | .....                 | J. F. Lyles.                  |                 |
| Smiths Mills.....                     | Williamsburg..... | 62              | 9                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.15   | +0.38                      | 2.10                  | 3.0                        | 7                  | 16                 | 2                          | 13         | n.                    | H. van Keuren.                |                 |
| Society Hill.....                     | Darlington.....   | 192             | 13                      | 39.2                               | —3.9                       | 70       | 22    | 16      | *4    | 38                       | 3.07   | —0.02                      | 0.90                  | 1.5                        | 8                  | 14                 | 4                          | 13         | ne.                   | J. J. Lucas.                  |                 |
| Spartanburg.....                      | Spartanburg.....  | 875             | 13                      | 35.9                               | —6.2                       | 64       | *1    | 10      | 6     | 36                       | 1.37   | —1.72                      | 0.80                  | 3.0                        | 5                  | 14                 | 0                          | 17         | .....                 | F. P. Robinson.               |                 |
| Stateburg.....                        | Sumter.....       | 500             | 27                      | 42.0                               | —3.2                       | 69       | *21   | 15      | 5     | 30                       | 2.22   | —1.35                      | 0.94                  | 1.0                        | 10                 | 13                 | 3                          | 15         | w.                    | W. W. Anderson, M. D.         |                 |
| Summerville.....                      | Dorchester.....   | 75              | 7                       | 40.0                               | —8.0                       | 68       | *2    | 20      | 4     | 36                       | 4.78   | +1.00                      | 2.81                  | 0.5                        | 13                 | 15                 | 9                          | 6          | sw.                   | Miss L. R. Gadsden.           |                 |
| Sumter.....                           | Sumter.....       | 169             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....      | .....                 | Chas. S. Kingsmore.           |                 |
| +Trenton d.....                       | Edgefield.....    | 620             | 11                      | 40.2                               | —7.3                       | 64       | 22    | 17      | 5     | 33                       | 2.69   | —1.22                      | 1.28                  | T.                         | 7                  | 12                 | 7                          | 8          | w.                    | C. A. Long.                   |                 |
| Trials.....                           | Berkeley.....     | 85              | 18                      | 41.0                               | —6.2                       | 70       | 22    | 12      | *5    | 39                       | 3.87   | +0.25                      | 1.60                  | 5.0                        | 8                  | 15                 | 7                          | 9          | nw.                   | Etsell Gaillard.              |                 |
| Walhalla.....                         | Oconee.....       | 1061            | 13                      | 38.4                               | —3.7                       | 65       | 11    | 12      | 5     | 40                       | 3.40   | —0.74                      | 1.50                  | 5.5                        | 7                  | 17                 | 9                          | 5          | sw.                   | J. D. Isbell.                 |                 |
| Walterboro.....                       | .....             | .....           | 1                       | 45.5                               | .....                      | 72       | *2    | 20      | *5    | 36                       | 3.83   | .....                      | 1.69                  | T.                         | 11                 | 15                 | 8                          | 8          | nw.                   | J. A. Westerberg.             |                 |
| Wilmington, N. C.....                 | New Hanover.....  | 52              | 35                      | 41.3                               | —5.6                       | 70       | 22    | 15      | 6     | 35                       | 3.24   | —0.70                      | 1.31                  | .....                      | 14                 | 13                 | 7                          | 11         | n.                    | Weather Bureau.               |                 |
| Winnsboro.....                        | Fairfield.....    | 545             | 15                      | 40.4                               | —2.8                       | 68       | 2     | 17      | 6     | 27                       | 2.92   | —0.25                      | 1.98                  | T.                         | 3                  | 12                 | 10                         | 9          | sw.                   | John W. Seigler.              |                 |
| Winthrop College.....                 | York.....         | 690             | 5                       | 38.4                               | —4.8                       | 65       | 22    | 13      | 5     | 34                       | 1.08   | —2.43                      | 0.51                  | 1.0                        | 6                  | 15                 | 10                         | 6          | sw.                   | Geo. B. Green.                |                 |
| Yemassee.....                         | Beaufort.....     | 23              | 9                       | 43.6                               | —4.7                       | 74       | 21    | 21      | *5    | 41                       | 4.65   | +2.35                      | 2.56                  | .....                      | 7                  | 15                 | 4                          | 12         | .....                 | J. G. Hutson.                 |                 |
| Yorkville.....                        | York.....         | 680             | 16                      | 40.0                               | —3.1                       | 66       | 22    | 15      | 5     | 30                       | 1.91   | —1.95                      | 1.45                  | 1.0                        | 5                  | 11                 | 8                          | 12         | sw.                   | J. R. Schorb.                 |                 |
| MEANS—highest, lowest and dates, etc. |                   |                 |                         | 40.2                               | —4.5                       | 74       | 21    | 8       | *5    | 47                       | 2.97   | —0.59                      | 2.81                  | 1.1                        | 8                  | 15                 | 5                          | 11         | n.                    | .....                         |                 |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.

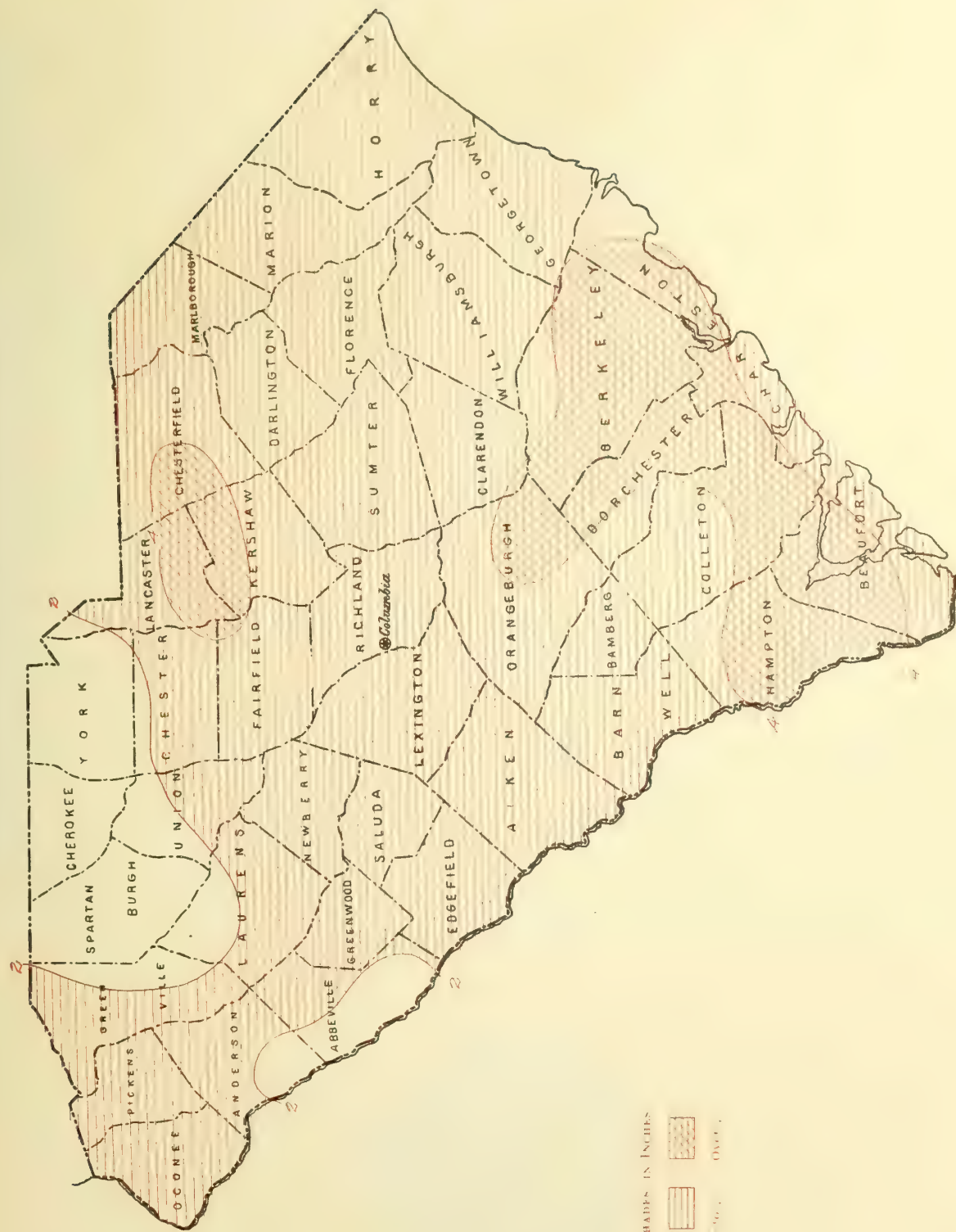


STATIONS.

a indicates 1 day missing, b 2 days, etc.



# TOTAL PRECIPITATION FOR JANUARY, 1904.



SCALE OF SHADES IN INCHES

|              |             |
|--------------|-------------|
| (Light Red)  | 4 to 7.99   |
| (Medium Red) | 8 to 11.99  |
| (Dark Red)   | 12 to 15.99 |



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JANUARY, 1904.

| STATIONS.         | Day of Month. |     |     |     |     |    |     |     |      |      |     |     |      |     |     |     |     |    |    |    |     |      |      |      |     |     |     |      |      |      |      | Total. |      |
|-------------------|---------------|-----|-----|-----|-----|----|-----|-----|------|------|-----|-----|------|-----|-----|-----|-----|----|----|----|-----|------|------|------|-----|-----|-----|------|------|------|------|--------|------|
|                   | 1             | 2   | 3   | 4   | 5   | 6  | 7   | 8   | 9    | 10   | 11  | 12  | 13   | 14  | 15  | 16  | 17  | 18 | 19 | 20 | 21  | 22   | 23   | 24   | 25  | 26  | 27  | 28   | 29   | 30   | 31   |        |      |
| Aiken             |               |     | .40 | T.  |     |    |     |     |      | .20  | .20 |     | .18  |     |     |     |     |    |    |    |     | 1.30 | .05  |      |     |     |     | .52  |      |      |      | 2.85   |      |
| Allendale         |               |     |     |     | .75 |    |     |     |      | .16  | .05 | T.  | .17  |     |     | .31 |     |    |    |    | .21 |      | 1.05 |      |     |     |     | .82  | .73  |      |      | 3.30   |      |
| Anderson          |               | .07 |     |     |     |    |     |     |      | .16  | .05 | T.  | .17  |     |     | .31 |     |    |    |    |     | 1.37 | .01  |      |     | T.  |     | .20  |      |      |      | 2.01   |      |
| Augusta, Ga.      |               | .30 | .04 | T.  |     |    | .02 |     |      | .20  | .03 |     | .21  |     |     | .08 | T.  |    |    |    |     | .96  |      |      |     |     |     | .33  | .02  |      | T.   | 2.61   |      |
| Barksdale         |               | .10 |     |     |     |    |     |     | .10  | .20  | T.  | .06 |      |     |     | .22 |     |    |    |    |     | .96  |      |      |     |     |     | .26  |      |      |      | 1.90   |      |
| Batesburg         |               |     | .33 |     | T.  |    |     | .03 |      | .30  | .93 |     | .39  | .05 |     |     | T.  |    |    |    |     | .98  |      |      |     |     |     |      | .63  |      |      | 3.64   |      |
| Beaufort          |               | .63 |     | .13 |     |    |     | .19 |      | .04  | .31 |     |      | .03 |     |     |     |    |    |    |     | 1.99 |      |      |     |     |     |      | .60  | .05  |      | 4.01   |      |
| Bennettsville     |               |     |     | .10 |     |    |     |     |      | .21  | .16 |     | .04  | .09 |     |     | T.  |    |    |    |     | .72  | T.   |      |     |     |     |      |      |      |      | 0.82   |      |
| Blackville        |               | .02 |     | .02 |     |    | .03 |     |      | .18  | .70 |     | .20  |     |     |     |     |    |    |    |     | T.   | 1.85 |      |     |     |     |      | 1.03 |      | .46  | .03    | 2.53 |
| Bowman            |               |     | .10 |     |     |    | .20 |     |      | .12  |     |     |      |     |     |     |     |    |    |    |     | .96  |      |      |     |     |     |      | .29  |      |      | 4.26   |      |
| Calhoun Falls     |               | .22 |     |     |     |    | .01 | .06 |      | .08  | .34 | .47 | .10  |     |     |     | .07 |    |    |    |     |      | 1.10 |      |     |     | .08 |      |      | .75  | .28  | 1.59   |      |
| Camden            |               | .12 |     | .04 |     |    | .01 |     |      | .07  | .20 |     | .02  | T.  |     |     |     |    |    |    | .02 | .31  | 1.83 |      |     | T.  |     | .37  | .03  |      | T.   | 3.50   |      |
| Charleston        |               | T.  | .50 | .12 | .01 |    |     | T.  | T.   |      | T.  | .13 |      | .04 |     |     | .02 |    |    |    |     | .84  |      |      | .05 |     |     | .30  | T.   |      |      | 1.38   |      |
| Charlotte, N. C.  |               | T.  |     |     |     |    |     | T.  | T.   |      |     | .20 | .16  | .06 |     |     | .05 |    |    |    |     | 1.20 |      |      | .07 |     |     | 1.20 | .05  |      | 3.20 |        |      |
| Cheraw(1)         |               | .21 | T.  | T.  |     |    |     | T.  | T.   |      |     | .12 | .16  | .05 |     |     | .05 |    |    |    |     | .97  |      |      |     | .09 |     |      |      | 1.20 | .11  | 2.95   |      |
| Cheraw(2)         |               | .17 |     | .02 |     |    |     | T.  |      |      | .20 | .28 | .24  |     |     | .25 |     |    |    |    |     | 1.51 |      |      |     | T.  |     | .28  | T.   |      | 2.97 |        |      |
| Clark's Hill      |               | .21 |     | T.  |     |    |     |     |      |      | .35 |     | 1.30 |     |     | .50 |     |    |    |    |     | .78  |      |      |     |     |     | .31  | .15  |      | 3.84 |        |      |
| Clemson College   |               | .13 |     |     |     |    | .32 |     |      | .03  | .49 |     | .08  |     |     | .01 |     |    |    |    |     | .81  | .04  |      |     | T.  |     | .84  | .04  |      | T.   | 2.62   |      |
| Columbia          |               | .23 | .04 | T.  | T.  |    | .01 |     |      | .21  |     | .05 | .10  |     |     |     |     |    |    |    |     | .05  | 1.46 | T.   |     |     |     |      | .50  | .15  | 3.03 |        |      |
| Conway            |               | .06 |     | .45 |     |    |     | T.  |      |      |     |     |      |     |     |     |     |    |    |    |     | .50  | .55  |      |     |     |     | .05  | .91  |      | 2.49 |        |      |
| Darlington        |               | .12 |     | .20 |     |    |     |     |      | .01  | .15 |     |      |     |     |     |     |    |    |    |     |      |      |      |     |     |     |      |      |      |      |        |      |
| Dillon            |               |     |     |     |     |    |     |     |      |      |     |     |      |     |     |     |     |    |    |    |     | 1.42 |      |      |     |     |     | .26  |      |      | 2.32 |        |      |
| Due West          |               | .10 |     |     |     |    |     |     |      | .13  | .11 |     |      |     |     | .15 | .03 |    |    |    |     |      |      |      |     |     |     |      |      |      |      |        |      |
| Edisto            |               |     |     |     |     |    |     |     |      |      | .20 | .16 | .03  |     |     |     | .06 |    |    |    |     |      | .97  |      |     | .05 |     |      | .90  | .13  |      | 3.20   |      |
| Effingham         |               | .50 |     | .20 |     |    |     |     |      |      | .10 | .16 |      |     |     |     |     |    |    |    |     | 1.25 |      |      |     |     |     | .25  |      |      | 2.12 |        |      |
| Florence          |               | .32 |     | .20 |     |    |     |     |      |      |     |     |      |     |     |     |     |    |    |    |     |      | .80  |      |     |     |     | .30  | .01  |      | 1.50 |        |      |
| Gaffney           |               |     |     |     |     |    |     |     |      |      | .05 |     | .15  |     |     |     | .11 |    |    |    |     |      | .50  | .25  |     |     |     |      |      |      | 3.50 |        |      |
| Georgetown        |               |     | .25 |     |     |    |     |     | 1.50 | 1.00 |     | .07 |      | T.  |     |     |     |    |    |    |     | .25  |      |      |     |     |     | .83  |      |      | 4.36 |        |      |
| Gillisonville     |               | .70 |     | .05 |     |    |     | .05 |      | .11  |     | .07 |      | T.  |     |     | .25 |    |    |    |     | .27  | .80  |      |     |     |     | .33  | .35  |      | 2.22 |        |      |
| Greenville        |               | .05 |     |     |     |    |     | T.  |      |      | .20 |     | .02  |     |     |     | .26 |    |    |    |     | 1.55 |      |      |     |     |     |      |      |      | 2.41 |        |      |
| Greenwood         |               | .35 |     |     |     |    |     |     |      |      | .56 |     |      |     |     |     | .22 |    |    |    |     | 2.45 |      |      | .03 |     |     | 1.15 |      |      | 4.56 |        |      |
| Heath Springs     |               | .15 |     |     |     |    |     | T.  |      |      | .12 | .15 | .66  |     |     | .08 |     |    |    |    |     | 1.51 |      |      |     |     |     | .67  | .16  |      | 3.78 |        |      |
| Kingstree(1)      |               | .12 |     | .31 |     |    |     |     |      | .10  | .17 | .66 |      | .08 |     |     |     |    |    |    |     | 1.55 |      |      |     |     |     | .67  | .13  |      | 3.78 |        |      |
| Kingstree(2)      |               | .11 |     | .31 |     |    |     |     |      | .10  | .17 | .66 |      | .08 |     |     |     |    |    |    |     | 1.50 |      |      |     | T.  |     | .30  |      |      | 2.94 |        |      |
| Liberty           |               | .10 |     |     |     |    | .08 |     |      | .15  |     | .12 |      | .12 |     |     | .14 |    |    |    |     | 1.37 |      |      |     | .05 |     | .32  |      |      | T.   | 2.61   |      |
| Little Mountain   |               | .25 |     |     |     |    | .03 |     |      | .03  | .32 |     | .12  |     |     |     |     |    |    |    |     | 1.00 |      |      |     |     |     | 1.58 |      |      | 3.55 |        |      |
| Lugoff            |               | T.  | .03 | T.  |     |    | .03 |     |      | .12  | .10 | T.  | .07  |     |     | .16 |     |    |    |    |     | 2.20 |      |      |     |     |     | .33  | .05  |      | 1.8  | 3.66   |      |
| Newberry          |               | .45 |     | T.  |     |    |     |     |      |      |     |     |      |     |     |     |     |    |    |    |     |      |      |      |     |     |     |      |      |      |      |        |      |
| Pinopolis         |               |     |     |     |     |    |     |     |      | .10  | .16 |     | .06  | .09 |     |     | .03 |    |    |    |     | T.   | .87  |      |     |     |     | .62  | .25  |      | 2.41 |        |      |
| St. Georges       |               | .15 |     | .08 |     |    | .04 |     |      | .20  |     |     |      | .25 |     |     |     |    |    |    |     | T.   | 1.02 |      |     |     |     | 1.00 | .20  |      | 3.47 |        |      |
| St. Matthews      |               | .36 |     | .12 |     |    | .04 |     |      | .05  | .10 |     | .05  | .10 |     |     |     |    |    |    |     |      | 1.96 | T.   |     |     |     | .60  | .06  |      | 3.40 |        |      |
| St. Stephens      |               |     |     | .42 |     |    |     | .06 |      | .05  | .10 |     | .05  | .10 |     |     |     |    |    |    |     | 1.35 | T.   |      |     |     |     | .17  | .13  |      | 2.8  |        |      |
| Saluda            |               | .02 | .30 |     |     |    | T.  |     |      | .10  | .34 | .02 | .16  | .03 |     | .16 | .04 |    |    |    |     | 1.77 | .01  |      |     |     |     | .27  | T.   |      | 2.31 |        |      |
| Santuc            |               | .03 |     |     |     |    | .03 | .02 |      | .02  | .03 |     | .05  |     |     | .12 |     |    |    |    |     | .01  | 1.08 | 1.07 |     | T.  |     | .68  | .02  |      | T.   | 3.77   |      |
| Savannah, Ga.     |               | .03 | .15 | .05 |     |    | .06 |     |      | .14  | .45 |     | .02  | .01 |     |     |     |    |    |    |     |      |      |      |     |     |     |      |      |      |      |        |      |
| Seivern           |               |     |     |     |     |    |     |     |      |      |     |     |      |     |     |     |     |    |    |    |     | 2.10 |      |      |     | .03 |     |      | .55  | T.   | T.   | 3.11   |      |
| Smiths Mills      |               | .12 |     | .22 |     |    |     | T.  |      |      | .10 |     | T.   |     |     |     | .03 |    |    |    |     | .90  |      |      |     | .04 |     |      | .84  |      |      | 3.07   |      |
| Society Hill      |               | .02 |     | .13 |     |    |     |     |      | .47  | .59 |     | .08  |     |     |     |     |    |    |    |     |      | .03  | .77  |     |     | T.  | .30  | T.   |      | T.   | 1.31   |      |
| Spartanburg       |               |     |     |     |     |    |     |     |      | .10  |     |     |      | T.  |     | .17 |     |    |    |    |     |      | .61  | .33  |     |     |     | .64  | .05  |      | .12  | 2.21   |      |
| Stateburg         |               | .17 |     | .09 |     |    | T.  |     |      | T.   | .10 | .04 |      | .05 |     |     | .02 |    |    |    |     |      | .61  | .33  |     |     |     | .67  | .07  | .20  | 4.77 |        |      |
| Summerville       |               | .34 |     | .21 |     |    | .09 |     | .21  | .04  |     | .04 | .05  |     |     |     |     |    |    |    | .03 | .02  | 2.81 |      |     |     | .80 |      |      | .70  |      | 1.50   |      |
| Sumter            |               |     |     | T.  |     |    | .02 |     |      | .18  | .70 | .09 |      |     |     | .10 |     |    |    |    |     |      | 1.28 |      |     |     |     | .30  |      |      |      | 2.6    |      |
| Trenton           |               | .20 |     | .50 |     |    |     | .20 |      |      | .11 |     | .10  |     |     |     |     |    |    |    |     | 1.60 |      |      |     |     |     | 1.00 |      |      | .16  | 3.8    |      |
| Trial             |               |     |     |     |     |    |     |     |      | .25  | .10 | .35 | T.   | T.  |     | .40 |     |    |    |    |     |      | 1.50 |      |     |     |     | .55  |      |      | T.   | 3.4    |      |
| Walhalla          |               | .25 |     |     |     | T. |     |     |      | .17  |     |     | .07  | .03 |     |     |     |    |    |    |     |      | .18  | 1.71 |     |     |     |      | .76  | .35  |      | 3.8    |      |
| Walterboro        |               |     | .32 | .08 |     |    | .15 | .01 |      | .17  |     |     | .34  |     | .04 | .03 |     |    |    |    |     | .01  | .23  | 1.27 |     |     | T.  |      | .22  | .10  |      | 3.2    |      |
| Wilmington, N. C. |               |     | .14 | .01 | .44 |    | .01 | .02 |      | T.   |     |     |      |     |     |     | .10 |    |    |    |     |      | 1.98 |      |     |     |     | T.   |      |      |      | 2.9    |      |
| Winnsboro         |               |     |     |     |     |    |     |     |      | .84  |     | .20 | .05  |     |     | .13 |     |    |    |    |     |      | .51  |      |     |     |     | .10  | T.   |      |      | 1.0    |      |
| Winthrop College  |               | .09 |     |     |     |    |     | .05 |      | T.   | .13 |     | .11  |     |     |     |     |    |    |    |     |      | 2.56 |      |     |     |     |      |      |      |      | 4.6    |      |
| Yemassee          |               |     |     |     |     |    |     |     |      | T.   | .17 |     | .04  |     |     | .15 |     |    |    |    |     | 1.45 |      |      |     |     |     | .10  |      |      |      | 1.9    |      |
| Yorkville         |               | T.  |     |     |     |    |     |     |      |      |     |     |      |     |     |     |     |    |    |    |     |      |      |      |     |     |     |      |      |      |      |        |      |

T indicates trace, less than . or inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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BY

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SECTION DIRECTOR.



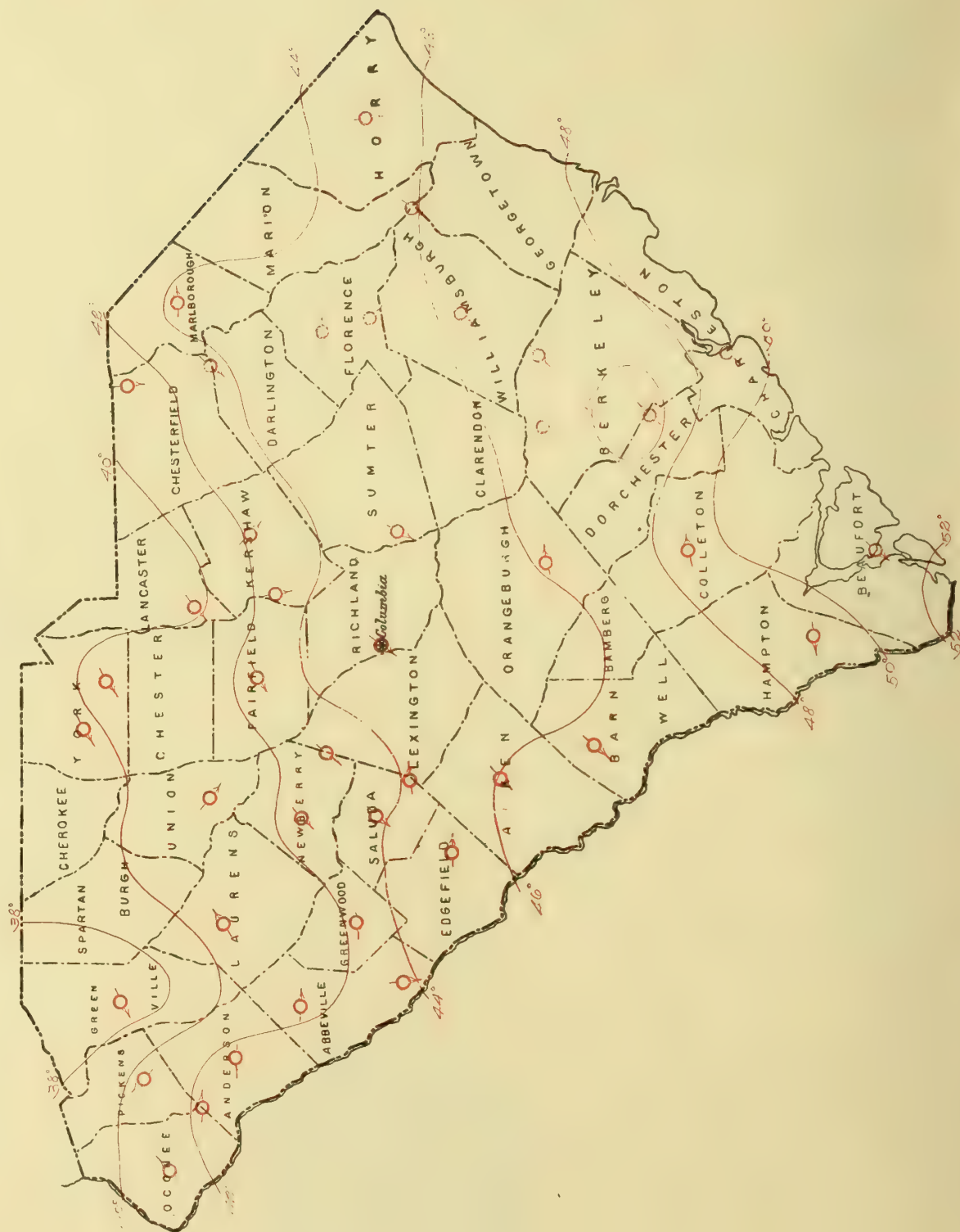
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

March 22, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR FEBRUARY, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. VII. COLUMBIA, S. C., FEBRUARY, 1904.

No. 2.

## PROGRESS OF FARMWORK.

The month was colder than usual with night temperatures below freezing over the western parts of the State, most of the time, but it was warm enough nearly every day to thaw the ground. This alternate freezing and thawing was detrimental to winter grains on wet lands. In the central and eastern counties there were few ground freezes, and grains were not injured by "heaving". The temperature was generally too low for grain crops to make any growth, except along the immediate coast where a slight growth made an improvement in the appearance of winter oats and in truck, both of which are in good condition.

The precipitation was slightly below normal, but it was very evenly distributed over the State, and the ground was kept moist by frequent rains, especially from the 6th to the 11th, and from the 19th to the 22nd. Less general rains occurred on the 1st, the 15th and the 27th. A portion of the precipitation was in the form of sleet on the 10-11th and on the 21st, and some snow fell on these days, but not enough for the protection of winter grains as the snow generally melted as it fell.

The soil was kept in fairly good condition for ploughing in the eastern parts of the State, where good progress was made in the preparation of lands for Spring planting, but it was generally too wet over the western parts, where very little ploughing was accomplished, although about the usual area of uplands was prepared for early planting. Some gardening was done, but the temperature was uniformly too low for the favorable germination of seeds.

A large acreage of Spring oats was sown during the month and some fields of oats that were winter-killed were re-sown. Tobacco beds were burnt over and seeded, but less attention was given to this work than during the last few years. Peach and plum trees began to bloom in the extreme southeastern counties by the end of the month. Some peach buds were killed by the sleet and ice of the 11th, but the extent of the damage was apparently slight and limited to early blooming varieties. Fruit trees are backward and buds showed no perceptible swelling in the central and western counties.

Barometer and Wind Table for February, 1904.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.21      | 30.45    | 13    | 29.92   | 1     | 4,866           | 7.0             | 36                | NW.        | 7     |
| Charleston, S. C. .... | 30.21      | 30.45    | 4     | 29.84   | 1     | 7,376           | 11.4            | 20                | NE.        | 20    |
| Charlotte, N. C. ....  | 30.22      | 30.52    | 20    | 29.79   | 1     | 6,018           | 8.7             | 7                 | SW.        | 7     |
| Columbia, S. C. ....   | 30.21      | 30.46    | 13    | 29.80   | 1     | 7,714           | 11.1            | 46                | NW.        | 7     |
| Savannah, Ga. ....     | 30.20      | 30.46    | 4     | 29.93   | 1     | 5,872           | 8.5             | 33                | NW.        | 7     |
| Wilmington, N. C. .... | 30.19      | 30.48    | 18    | 29.68   | 1     | 6,792           | 9.8             | 38                | NW.        | 1     |
| Averages .....         | 30.21      | 30.52    | 20    | 29.68   | 1     | 6,523           | 9.4             | 52                | SW.        | 7     |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for February, 1904, was 45.2°, which is 2.3° below normal. The highest local mean was 50.8° at Beaufort; the lowest 37.6° at Greenville. The highest maximum was 86° at Florence on the 7th, the lowest minimum was 15° at Clemson College on the 2nd, making the State range 71°. The greatest local monthly range was 66° at Clemson College, the least was 48° at Charleston and Winnsboro. The mean of the daily maximum temperatures was 54.7°, of the daily minimum temperatures 35.6°, making the average daily range 19.1°.

## Precipitation, in Inches.

The average precipitation was 3.59 inches, which is 0.91 below normal. The greatest local amount was 5.35 at Walterboro, the least was 1.95 at Allendale. The greatest 24-hour fall was 2.11 inches at Beaufort on the 9th. The average number of days with 0.01, or more, precipitation was 9, ranging from 3 at Allendale and Florence to 13 at Camden, Cheraw (2) and Newberry.

## Excessive Precipitation.—None.

Snow.—The snowfall for the month was light, there having been measureable amounts at only twelve stations, "trace" at twelve other stations, and none at 30 stations. The heaviest fall was 2.3 inches at Little Mountain. The snow fell on two periods, comprising three dates, as follows: on the 1st at nine stations in the middle western counties, from the Savannah river to the North Carolina border, and the area was comprised in a comparatively narrow belt of country; on the 10-11th over the northern part of the State from the mountains to within about forty miles from the coast, the area bending southward in Williamsburg county.

Sleet.—Two sleet storms were noted. The first on the 10-11th covered all but the southernmost parts of the State. This sleet was mixed with rain that froze as it fell forming an ice coating on trees and wires. In places the sleet was heavy enough to cover the ground. Both the sleet and the ice melted quickly on the 11th. The second sleet storm occurred on the 21st and was confined to the southwestern and western parts of the State.

Hail.—Hail was noted on the 8th at Batesburg.

Weather.—The average number of clear days was 12, of



partly cloudy 6, and of cloudy 11.

Winds.—The prevailing direction of the wind was from the northeast at 22 stations, from the west at 8, from the north at 5, from the east and northwest at 4 each, from the southwest at 3, and from the southeast at 1 station.

High Winds.—Bowman, Gillisonville, Spartanburg, Summerville, 1; Charleston, 20, Columbia, 1, 7, 20; Gaffney, Dillon, 7; Lugoff, 8, 20; Stateburg, 3.

#### MISCELLANEOUS PHENOMENA (with dates).

Lunar Halos.—Beaufort, Blackville, 26; Charleston, 25.

Solar Halos.—Charleston, 3, 5, 13, 14, 15, 18, 19; Stateburg, 11, 18, 20.

Fogs, Dense.—Aiken, Society Hill, 28; Barksdale, 6, 27, 28, 29; Beaufort, 21, 22, 27, 28; Blackville, 21, 22, 29; Charleston, 7, 8, 21, 22, 28, 29; Cheraw, Conway, Effingham, Gillisonville, Little Mountain, Lugoff, St. Stephens, 29; Clemson College, 6, 19, 28; Columbia, 22, 28, 29; Florence, 19, 28; Greenville, 7, 29; Liberty, 6, 7, 19, 22, 27, 29; Newberry, 19, 28; Saluda, 19; Santuc, 27, 28, 29; Spartanburg, 6; Stateburg, 21, 22, 28, 29; Summerville, 22, 23, 25, 28; Yorkville, 24.

Thunderstorms.—Anderson, 6; Barksdale, Bennettsville, Blackville, Camden, Clemson College, Dillon, Due West, Gaffney, Greenville, Liberty, Newberry, Saluda, Santuc, Society Hill, Stateburg, Summerville, Trenton, Yorkville, 7; Batesburg, Bowman, Lugoff, Spartanburg, 8th; Beaufort, 9; Cheraw 7, 27, Gillisonville, 9, 10; Winthrop College, 7, 26. Summarized by dates, there was one on the 6th, twenty on the 7th, four on the 8th, one on the 10th, one on the 26th, and one on the 27th, making a total of thirty thunderstorms with seven dates of occurrence. There was also a thunderstorm noted at Charleston on the 9th and one at Columbia on the 7th.

#### REMARKS BY OBSERVERS.

Aiken: February was cooler than usual, the mean temperature having been 3.2° below normal.—C. F. McGahan.

Barksdale: The month closed with warm, cloudy weather. Small grain looks much better. There has been some Spring oats sown. Heavy winds on the 7th unroofed a house in this vicinity.—J. T. Barksdale.

Batesburg: Very little farmwork done on account of rains and cold weather. Small grain improving very slowly. Some gardening has been done.—E. J. Hite.

Beaufort: Mean temperature was 2.0° below normal. Accumulated deficiency in temperature since December 1st is 328°. Precipitation for February was 1.08 inches in excess of normal, and is 2.34 inches in excess since January 1st. The oats and truck crops look well. Peach and plum trees

were in full bloom on the 29th.—S. M. Benton.

Bowman: About the average amount of Spring plowing has been done. Gardening is very backward, owing to the unseasonable weather. Some white potatoes and cabbages have been planted.—B. O. Evans.

Clarks Hill: Trees were ice coated on the 11th and the 21st. Some peach buds were killed on the 11th. By the 29th peach buds were swollen and were showing the bloom slightly.—Wm. S. Middleton.

Gillisonville: Month cold and damp. Heavy rains stopped work a part of the time. Oats are apparently doing well. Field work as far advanced as usual.—Sam P. Saltus.

Heath Springs: Very little farmwork accomplished. The contemplated cotton acreage is smaller than last year. Small grain is backward.—J. A. Weaner.

Liberty: Rainfall well distributed throughout the month. Very little plowing has been done, and few oats have been sown. Owing to the continuous cold, the fruit buds are backward. Gardening greatly delayed.—Jno. T. Boggs.

Little Mountain: Plowing was begun toward the last of the month. Some oats fields that were winter-killed, were re-sown. An average acreage of cotton is contemplated.—Jno. M. Sease, M. D.

Lugoff: Considerable plowing has been done. Small grain looks very poor.—W. J. Burdell, M. D.

Newberry: It was a very cold month, but some plowing has been done.—W. G. Peterson.

Society Hill: Oats are very backward, owing to the severe winter. It has been the coldest winter since the establishment of the station. Frogs were heard and bats seen on the 7th and 29th.—Maj. J. J. Lucas.

Stateburg: Although without the occurrence of any unusually low temperature, the weather during this month was damp, raw and cold, and very unfavorable for outdoor work: in consequence, the preparation of ground for Spring planting has not made as good progress as usual.—W. W. Anderson, M. D.

Trenton: Precipitation 3.72 inches less than the February average, and 4.96 less than the normal for the first two months of the year.—C. A. Long.



## CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY, 1904.

| STATIONS.                                 | Counties.         | Elevation—feet. | Length of record—years. | Temperature in degrees Fahrenheit. |                            |          |       |         |       | Precipitation in inches. |        |                            |                       | Sky                       |                    |                    |                            | Prevailing direction of wind. | Observers. |                        |
|---|-------------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|---------------------------|--------------------|--------------------|----------------------------|-------------------------------|------------|------------------------|
|   |                   |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. |                               |            | Number cloudy days.    |
| Aiken.....                                | Aiken.....        | 565             | 3                       | 46.2                               | -3.3                       | 76       | 23    | 22      | *2    | 41                       | 3.59   | -0.52                      | 1.40                  | .....                     | 9                  | 24                 | 4                          | 2                             | ne.        | Dr. C. F. McGahan.     |
| Allendale.....                            | Barnwell.....     | 186             | 16                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.95   | -1.54                      | 0.75                  | .....                     | 3                  | 16                 | 0                          | 13                            | .....      | C. A. Glover.          |
| Anderson.....                             | Anderson.....     | 764             | 3                       | 43.4                               | +0.5                       | 82       | 25    | 21      | 11    | 48                       | 3.12   | -2.82                      | 1.00                  | .....                     | 15                 | 15                 | 3                          | 14                            | e.         | R. B. Dean.            |
| Augusta, Ga.....                          | Richmond.....     | 134             | 33                      | 46.3                               | -4.1                       | 75       | 7     | 24      | 2     | 34                       | 3.05   | -0.91                      | 1.03                  | .....                     | 10                 | 10                 | 0                          | 10                            | ne.        | Weather Bureau.        |
| Barksdale.....                            | Laurens.....      | 780             | 3                       | 41.9                               | .....                      | 71       | 21    | 20      | 10    | 36                       | 3.79   | .....                      | 1.14                  | 0.5                       | 8                  | 12                 | 7                          | 10                            | sw.        | J. T. Garrett.         |
| Batesburg.....                            | Lexington.....    | 656             | 16                      | 44.0                               | -1.4                       | 75       | *7    | 21      | 14    | 40                       | 4.71   | 1.52                       | 1.12                  | 0.9                       | 7                  | 14                 | 2                          | 8                             | w.         | E. J. Hale.            |
| Beaufort.....                             | Beaufort.....     | 28              | 18                      | 50.8                               | -2.0                       | 75       | 29    | 26      | 2     | 33                       | 4.60   | +1.08                      | 2.11                  | .....                     | 12                 | 13                 | 8                          | 8                             | ne.        | S. M. Benton.          |
| Bennettsville.....                        | Marlboro.....     | .....           | 3                       | 44.4                               | .....                      | 78       | 28    | 21      | 12    | 37                       | 2.97   | .....                      | 0.75                  | 1.5                       | 8                  | 17                 | 9                          | 3                             | w.         | Jno. L. McCall.        |
| Blackville.....                           | Barnwell.....     | 296             | 16                      | 46.0                               | +0.1                       | 77       | 7     | 22      | 2     | 45                       | 4.08   | -0.91                      | 1.47                  | .....                     | 11                 | 9                  | 14                         | 6                             | ne.        | G. D. C. Lange.        |
| Bowman.....                               | Orangeburg.....   | 160             | 3                       | 47.0                               | .....                      | 77       | 29    | 24      | 11    | 37                       | 4.23   | .....                      | 1.40                  | .....                     | 7                  | 16                 | 4                          | 9                             | w.         | B. O. Evans.           |
| Calhoun Falls.....                        | Abbeville.....    | 508             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.72   | -0.72                      | 0.92                  | .....                     | 11                 | 17                 | 0                          | 12                            | n.         | P. J. Pfeiffer.        |
| Camden.....                               | Kershaw.....      | 222             | 38                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.80   | -0.09                      | 1.57                  | T.                        | 13                 | 12                 | 4                          | 13                            | n.         | H. G. Carrison.        |
| Charleston.....                           | Charleston.....   | 48              | 35                      | 49.4                               | -3.4                       | 76       | 24    | 28      | 11    | 27                       | 3.57   | +0.25                      | 1.72                  | .....                     | 10                 | 6                  | 14                         | 9                             | ne.        | Weather Bureau.        |
| Charlotte, N. C.....                      | Mecklenburg.....  | 808             | 26                      | 39.6                               | -5.4                       | 71       | 7     | 19      | 11    | 28                       | 3.42   | -1.09                      | 1.00                  | .....                     | 12                 | 9                  | 8                          | 12                            | ne.        | Weather Bureau.        |
| Cheraw (1).....                           | Chesterfield..... | 144             | 16                      | 41.0                               | -5.3                       | 75       | 7     | 20      | 2     | 38                       | 3.90   | -0.42                      | 1.20                  | T.                        | 12                 | 9                  | 3                          | 17                            | n.         | W. R. Godfrey.         |
| Cheraw (2).....                           | .....             | 144             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.97   | -0.80                      | 1.24                  | 0.1                       | 13                 | 11                 | 4                          | 14                            | ne.        | Jno. H. Powe.          |
| Clarks Hill.....                          | Edgefield.....    | 456             | 2                       | 45.3                               | .....                      | 73       | *7    | 23      | 11    | 34                       | 3.21   | .....                      | 1.07                  | 2.1                       | 8                  | 8                  | 6                          | 15                            | .....      | Wm. S. Middleton.      |
| Clemson College.....                      | Oconee.....       | 850             | 13                      | 42.4                               | +0.6                       | 81       | 24    | 15      | 2     | 41                       | 3.87   | -1.58                      | 1.00                  | .....                     | 10                 | 8                  | 9                          | 12                            | w.         | Prof. C. C. Newman.    |
| Columbia.....                             | Richland.....     | 351             | 17                      | 44.4                               | -3.7                       | 73       | 7     | 22      | 11    | 28                       | 3.01   | -1.17                      | 1.17                  | .....                     | 12                 | 8                  | 8                          | 13                            | ne.        | Central Office.        |
| Conway.....                               | Horry.....        | 25              | 13                      | 44.8                               | .....                      | 79       | 7     | 20      | 12    | 43                       | 3.52   | -1.06                      | 1.75                  | .....                     | 7                  | 20                 | 1                          | 8                             | n.         | McQ. Quantlebaum.      |
| +Darlington.....                          | Darlington.....   | 175             | 9                       | 44.6                               | T.                         | 76       | 29    | 19      | 12    | 38                       | 3.57   | -1.39                      | 1.00                  | .....                     | 11                 | 10                 | 9                          | 10                            | .....      | E. R. Melver.          |
| Dillon.....                               | Marion.....       | 100             | 0                       | 43.9                               | .....                      | 77       | 29    | 20      | 12    | 40                       | 3.20   | .....                      | 1.20                  | .....                     | 5                  | .....              | .....                      | .....                         | .....      | A. E. Rowell.          |
| Due West.....                             | Abbeville.....    | 740             | 3                       | 41.6                               | .....                      | 73       | 24    | 23      | 11    | 34                       | 3.79   | .....                      | 0.87                  | .....                     | 10                 | 14                 | 4                          | 11                            | w.         | Rev. O. Y. Bonner.     |
| Edisto.....                               | Bamberg.....      | 127             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                     | .....              | .....              | .....                      | .....                         | .....      | J. L. Padgett.         |
| Effingham.....                            | Florence.....     | 106             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 4.34   | -0.28                      | 1.80                  | T.                        | 7                  | 10                 | 3                          | 16                            | nw.        | H. B. McCall.          |
| Florence.....                             | Florence.....     | 136             | 16                      | 45.8                               | -1.2                       | 86       | 7     | 22      | *2    | 39                       | 3.34   | -1.79                      | 2.00                  | .....                     | 3                  | 11                 | 8                          | 10                            | w.         | Howell DeBerry.        |
| Gaffney.....                              | Cherokee.....     | 893             | 8                       | 38.9                               | .....                      | 86       | 8     | 16      | 2     | 41                       | 3.02   | -0.86                      | 0.98                  | .....                     | 11                 | .....              | .....                      | .....                         | .....      | B. F. Camp.            |
| Georgetown.....                           | Georgetown.....   | 12              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                     | .....              | .....              | .....                      | .....                         | .....      | W. T. Turbeville.      |
| Gillisonville.....                        | Hampton.....      | 50              | 9                       | 48.7                               | -1.3                       | 81       | 21    | 21      | *1    | 41                       | 3.81   | -0.87                      | 1.50                  | T.                        | 4                  | 13                 | 7                          | 8                             | e.         | Sam P. Saltus.         |
| Greenville.....                           | Greenville.....   | 989             | 12                      | 37.6                               | -2.6                       | 71       | 24    | 16      | *2    | 46                       | 4.18   | -0.70                      | 0.98                  | .....                     | 11                 | 10                 | 6                          | 13                            | ne.        | Mrs. S. A. Crittenden. |
| Greenwood +.....                          | Greenwood.....    | 671             | 16                      | 40.6                               | -2.0                       | 71       | 7     | 22      | 11    | 38                       | 4.43   | -0.46                      | 1.11                  | .....                     | 8                  | 13                 | 1                          | 15                            | e.         | M. M. Calhoun.         |
| Heath Springs.....                        | Lancaster.....    | .....           | 3                       | 38.6                               | .....                      | 70       | 8     | 18      | *2    | 38                       | 3.16   | .....                      | 1.45                  | .....                     | 9                  | 11                 | 4                          | 14                            | ne.        | J. A. Weaver.          |
| Kingstree (1).....                        | Williamsburg..... | 54              | 16                      | 46.4                               | -0.2                       | 76       | 29    | 20      | 12    | 42                       | 3.78   | -0.21                      | 1.38                  | T.                        | 8                  | 7                  | 8                          | 14                            | .....      | W. H. Edwards.         |
| Kingstree (2).....                        | .....             | 54              | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.74   | -0.38                      | 1.38                  | T.                        | 8                  | 8                  | 8                          | 13                            | ne.        | A. O. Matthews.        |
| Liberty.....                              | Pickens.....      | 900             | 10                      | 41.0                               | -0.2                       | 70       | 7     | 16      | 2     | 35                       | 3.65   | -1.78                      | 1.50                  | .....                     | 7                  | 10                 | 9                          | 10                            | se.        | Jno. T. Boggs.         |
| +Little Mountain.....                     | Newberry.....     | 711             | 11                      | 42.8                               | -2.5                       | 74       | 7     | 21      | *11   | 32                       | 3.33   | -1.87                      | 1.00                  | 2.3                       | 10                 | 5                  | 13                         | 11                            | ne.        | John M. Sease, M. D.   |
| Logoff.....                               | Kershaw.....      | 168             | 3                       | 43.5                               | .....                      | 76       | 29    | 20      | *2    | 41                       | 3.61   | .....                      | 1.26                  | T.                        | 9                  | 10                 | 7                          | 12                            | nw.        | W. J. Burdell, M. D.   |
| Newberry.....                             | Newberry.....     | 502             | 0                       | 42.5                               | -0.9                       | 73       | 24    | 22      | 11    | 34                       | 4.18   | -1.54                      | 1.07                  | .....                     | 13                 | 12                 | 3                          | 14                            | ne.        | W. G. Peterson.        |
| +Pinopolis.....                           | Berkeley.....     | 54              | 11                      | 47.6                               | -0.1                       | 72       | 29    | 26      | 12    | 28                       | 4.60   | -0.10                      | 1.52                  | .....                     | 7                  | 17                 | 0                          | 12                            | e.         | E. P. Ravenel.         |
| St. Georges.....                          | Dorchester.....   | 109             | 16                      | 46.2                               | -0.7                       | 76       | 29    | 24      | 11    | 38                       | 4.32   | +1.15                      | 1.16                  | T.                        | 9                  | 13                 | 3                          | 13                            | .....      | W. B. Raynor.          |
| St. Matthews.....                         | Orangeburg.....   | 260             | 16                      | 45.2                               | -1.2                       | 74       | 29    | 23      | 11    | 36                       | 4.81   | +0.05                      | 1.30                  | T.                        | 9                  | 10                 | 4                          | 15                            | ne.        | J. S. Warnamaker.      |
| St. Stephens.....                         | Berkeley.....     | 73              | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 4.06   | -0.30                      | 1.55                  | .....                     | 9                  | 10                 | 4                          | 15                            | ne.        | C. T. Shuler.          |
| Saluda.....                               | Saluda.....       | 536             | 3                       | 44.0                               | .....                      | 73       | *7    | 20      | *2    | 39                       | 3.28   | .....                      | 0.92                  | 1.5                       | 12                 | 14                 | 3                          | 12                            | ne.        | Alvin Etheridge.       |
| Santuc, b.....                            | Union.....        | 512             | 11                      | 41.0                               | -1.2                       | 74       | 7     | 17      | 12    | 40                       | 3.92   | -1.12                      | 1.37                  | 0.8                       | 11                 | 7                  | 11                         | 11                            | nw.        | E. W. Jeter.           |
| Savannah, Ga.....                         | Chatham.....      | 71              | 35                      | 52.0                               | -2.3                       | 81       | 7     | 29      | 12    | 29                       | 2.87   | -0.21                      | 1.18                  | .....                     | 8                  | 11                 | 10                         | 8                             | ne.        | Weather Bureau.        |
| Seivern.....                              | Aiken.....        | 482             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                     | .....              | .....              | .....                      | .....                         | .....      | Geo. C. Gunter.        |
| Smiths Mills.....                         | Williamsburg..... | 62              | 9                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 2.76   | -1.43                      | 1.20                  | T.                        | 8                  | 12                 | 4                          | 13                            | ne.        | H. van Keuren.         |
| Society Hill.....                         | Darlington.....   | 192             | 13                      | 42.5                               | -2.7                       | 73       | 7     | 22      | *1    | 36                       | 2.93   | -2.27                      | 1.25                  | 1.0                       | 7                  | 12                 | 1                          | 16                            | ne.        | J. J. Lucas.           |
| Spartanburg.....                          | Spartanburg.....  | 875             | 13                      | 39.8                               | -4.4                       | 73       | 24    | 17      | 2     | 45                       | 3.03   | -2.41                      | 1.50                  | T.                        | 8                  | 14                 | 2                          | 13                            | .....      | F. P. Robinson.        |
| Stateburg.....                            | Sumter.....       | 500             | 27                      | 45.6                               | -3.6                       | 74       | *24   | 22      | *11   | 32                       | 3.75   | -0.28                      | 1.55                  | .....                     | 10                 | 9                  | 6                          | 14                            | ne.        | W. W. Anderson, M. D.  |
| Summerville.....                          | Dorchester.....   | 75              | 7                       | 45.4                               | -3.1                       | 79       | 29    | 22      | 1     | 37                       | 4.87   | +0.06                      | 1.47                  | .....                     | 8                  | 12                 | 6                          | 11                            | sw.        | Miss L. R. Gadsden.    |
| Sumter.....                               | Sumter.....       | 169             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 2.06   | .....                      | 0.70                  | .....                     | 7                  | 9                  | 4                          | 12                            | .....      | Chas. S. Kingsmore.    |
| +Trenton a.....                           | Edgefield.....    | 620             | 11                      | 44.4                               | -2.8                       | 73       | 7     | 22      | 11    | 28                       | 2.97   | -3.72                      | 0.81                  | 0.7                       | 10                 | 11                 | 9                          | 8                             | w.         | C. A. Long.            |
| Trials.....                               | Berkeley.....     | 85              | 18                      | 46.2                               | -2.8                       | 75       | 24    | 18      | 2     | 41                       | 3.80   | -0.30                      | 1.80                  | .....                     | 5                  | 8                  | 11                         | 10                            | nw.        | Etsell Gaillard.       |
| Walhalla.....                             | Oconee.....       | 1061            | 13                      | 41.5                               | -3.3                       | 71       | 24    | 16      | *1    | 35                       | 4.05   | -0.27                      | 1.40                  | .....                     | 7                  | 14                 | 6                          | 9                             | sw.        | J. D. Isbell.          |
| Walterboro.....                           | Colleton.....     | .....           | 1                       | 50.8                               | .....                      | 82       | 29    | 23      | 2     | 43                       | 5.35   | .....                      | 1.72                  | .....                     | 9                  | 11                 | 11                         | 7                             | w.         | J. A. Westerberg.      |
| Wilmington, N. C.....                     | New Hanover.....  | 52              | 35                      | 43.7                               | -6.1                       | 74       | 29    | 21      | 13    | 34                       | 2.19   | -1.04                      | 0.85                  | T.                        | 10                 | 10                 | 9                          | 10                            | n.         | Weather Bureau.        |
| Winnsboro.....                            | Fairfield.....    | 545             | 15                      | 44.0                               | -2.6                       | 72       | 7     | 24      | 5     | 34                       | 3.26   | -1.35                      | 2.00                  | T.                        | 4                  | 15                 | 7                          | 7                             | ne.        | John W. Seigler.       |
| Winthrop College.....                     | York.....         | 690             | 5                       | 40.5                               | -5.3                       | 70       | *7    | 20      | 2     | 37                       | 3.71   | -0.98                      | 1.37                  | 1.0                       | 9                  | 11                 | 10                         | 8                             | ne.        | Geo. B. Green.         |
| Yemassee.....                             | Beaufort.....     | 23              | 9                       | 48.8                               | -0.5                       | 79       | 7     | 26      | *12   | 37                       | 4.77   | -0.11                      | 1.20                  | .....                     | 8                  | 12                 | 5                          | 12                            | .....      | J. G. Hutson.          |
| +Yorkville g.....                         | York.....         | 680             | 16                      | 43.8                               | -1.2                       | 74       | 22    | 20      | 21    | 36                       | 3.58   | -1.19                      | 1.48                  | 0.8                       | 5                  | 7                  | 4                          | 12                            | ne.        | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc..... | .....             | .....           | .....                   | 45.2                               | -2.3                       | 86       | 7     | 15      | 2     | 48                       | 3.59   | -0.91                      | 2.11                  | 0.2                       | 9                  | 12                 | 6                          | 11                            | ne.        | .....                  |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.

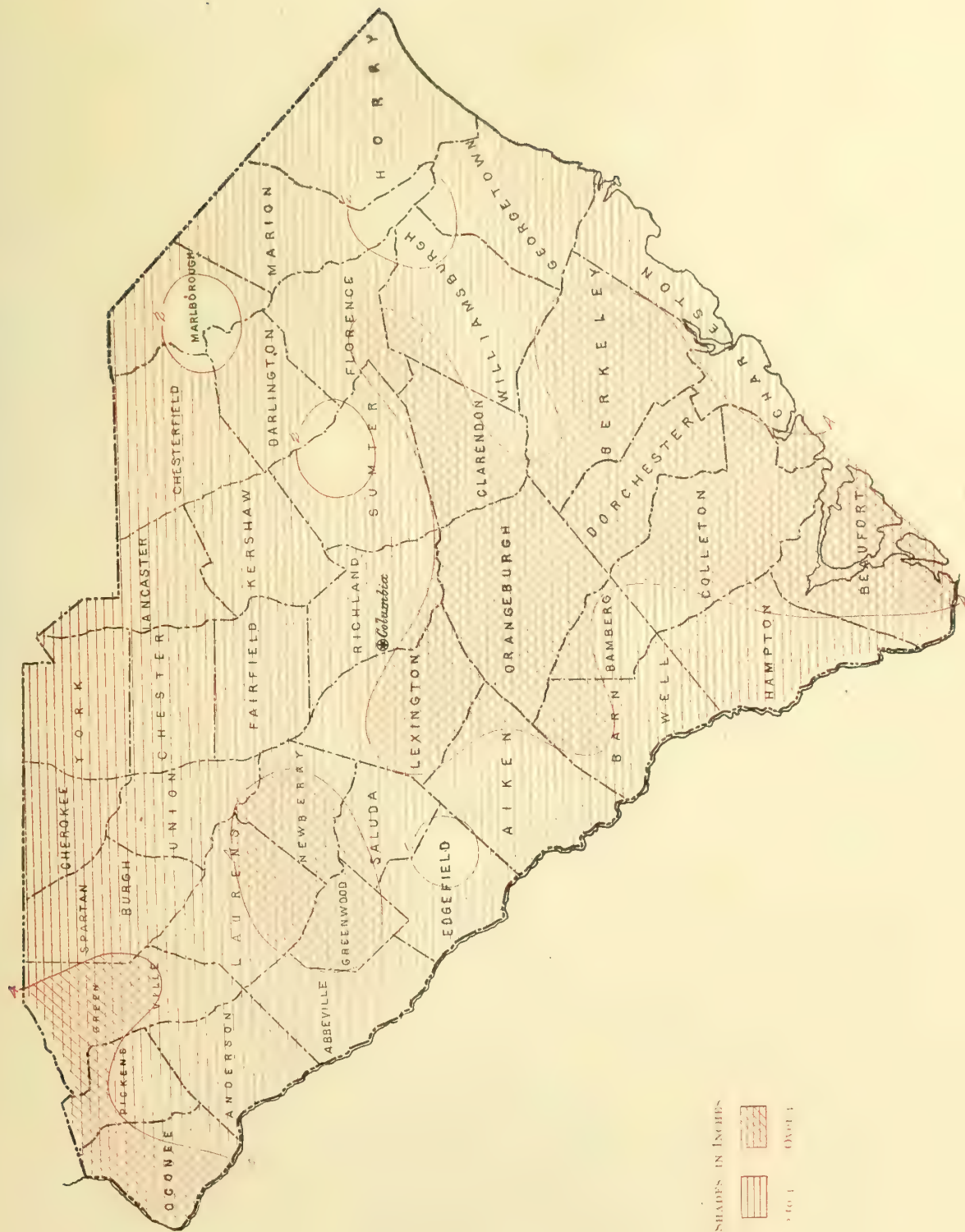


STATIONS.

| STATIONS. | 1    |      | 2    |      | 3    |      | 4    |      | 5    |      | 6    |      | 7    |      | 8    |      | 9    |      | 10   |      | 11   |      | 12   |      | 13   |      | 14   |      | 15   |      | 16   |      | 17   |      | 18   |      | 19   |      | 20   |      | 21   |      | 22   |      | 23   |      | 24   |      | 25   |      | 26   |      | 27   |      | 28   |      | 29   |      | 30   |      | 31   |      | Monthly mean. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      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|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-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|           | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |               | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. 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| Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. 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# TOTAL PRECIPITATION FOR FEBRUARY, 1904.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, FEBRUARY, 1904.

| STATIONS.         | Day of Month. |   |   |   |   |     |     |      |      |      |      |    |     |     |     |     |    |     |      |      |      |      |      |    |    |     |     |     |     |     |    | Total. |
|-------------------|---------------|---|---|---|---|-----|-----|------|------|------|------|----|-----|-----|-----|-----|----|-----|------|------|------|------|------|----|----|-----|-----|-----|-----|-----|----|--------|
|                   | 1             | 2 | 3 | 4 | 5 | 6   | 7   | 8    | 9    | 10   | 11   | 12 | 13  | 14  | 15  | 16  | 17 | 18  | 19   | 20   | 21   | 22   | 23   | 24 | 25 | 26  | 27  | 28  | 29  | 30  | 31 |        |
| Aiken             | .20           |   |   |   |   | .01 |     | .60  | .30  | 1.30 | .03  |    |     |     | .20 |     |    |     | .10  |      | .85  |      |      |    |    |     |     |     |     |     |    | 3.59   |
| Allendale         |               |   |   |   |   | .60 |     | .50  | .05  |      | .75  |    |     |     | .57 |     |    |     | 1.00 |      | .54  |      |      |    |    |     |     |     |     |     |    | 1.95   |
| Anderson          | .16           |   |   |   |   | .30 |     | .50  | .05  |      | .75  |    |     |     | .05 |     |    |     | .08  | T.   | .88  | .08  |      |    |    | T.  | T.  | T.  |     |     |    | 3.12   |
| Augusta, Ga.      | .13           |   |   |   |   | .05 | .17 | .31  | .28  | 1.02 | T.   |    |     | T.  | .05 |     |    |     |      | T.   |      |      |      |    |    |     |     | T.  | .12 |     |    | 3.05   |
| Barksdale         |               |   |   |   |   | .26 | .34 | .24  |      | .45  |      |    |     | T.  | .14 |     |    |     | 1.14 |      | 1.10 |      |      |    |    |     |     |     |     |     |    | 3.79   |
| Batesburg         | .25           |   |   |   |   | T.  | .87 |      |      | 1.12 |      |    |     | .33 |     |     |    |     | .46  | .57  | 1.11 |      |      |    |    |     |     |     |     |     |    | 4.71   |
| Beaufort          | .12           |   |   |   |   | .01 | .02 | .12  | 2.11 | .05  | .08  |    |     | .03 |     |     |    |     | .60  | .98  | .47  |      |      |    |    |     |     |     |     | .01 |    | 4.60   |
| Bennettsville     |               |   |   |   |   |     | .51 | .05  | .15  |      |      |    |     |     |     |     |    | .31 |      | .75  | .62  |      |      |    |    | T.  | .24 |     |     |     |    | 2.97   |
| Blackville        | .34           |   |   |   |   | T.  | .02 | .59  | .01  | .53  | 1.47 |    |     |     | .05 |     |    |     | .02  | .13  | .45  | .70  | T.   |    |    |     |     |     |     |     |    | 4.08   |
| Bowman            |               |   |   |   |   | T.  | .08 | .45  | .85  | 1.40 |      |    |     |     |     |     |    |     | T.   | .20  | 1.15 | .10  |      |    |    |     |     |     |     |     |    | 4.23   |
| Calhoun Falls     | .18           |   |   |   |   | .10 | .16 |      |      | .11  | .41  |    |     |     | .24 |     |    |     | .24  | .69  | .28  | .92  | .39  |    |    |     |     |     |     |     |    | 3.72   |
| Camden            | .16           |   |   |   |   | T.  | .76 |      |      | .14  | .39  |    |     |     | .08 |     |    |     | .06  | .35  | .09  | 1.50 | .07  |    |    | T.  | .12 | .03 | .05 |     |    | 3.80   |
| Charleston        | .13           |   |   |   |   | T.  | .01 | .11  | .47  | .71  | .11  |    |     |     | .02 |     |    |     | .22  | .76  | 1.03 |      |      |    |    |     |     |     |     |     |    | 3.57   |
| Charlotte, N. C.  | T.            |   |   |   |   | T.  | .34 |      |      |      |      |    |     | .01 | .05 |     |    |     | 1.00 |      | .95  | .23  |      |    |    | .02 | .52 | .04 | .01 |     |    | 3.42   |
| Cheraw(1)         | .25           |   |   |   |   |     | .70 |      |      | .15  | .37  |    |     |     | .05 |     |    |     | .08  | .35  | .23  | 1.20 | .05  |    |    |     | .41 | .06 | T.  |     |    | 3.90   |
| Cheraw(2)         | .23           |   |   |   |   | T.  | .65 |      |      | .13  | .47  |    |     |     | .11 |     |    |     | .08  | .33  | .14  | 1.24 | .10  |    |    |     | .42 | .06 | .01 |     |    | 3.97   |
| Clark's Hill      | .21           |   |   |   |   | T.  | .08 | .56  | .10  | 1.07 | .03  |    |     |     |     |     |    |     | T.   |      | 1.06 | .10  |      |    |    |     |     |     |     |     |    | 3.21   |
| Clemson College   |               |   |   |   |   | .19 | .45 |      |      | .50  | .05  |    |     | .10 | .22 |     |    |     | 1.00 |      | .97  | .33  |      |    |    |     | .06 |     |     |     |    | 3.87   |
| Columbia          | .22           |   |   |   |   | T.  | .33 | .20  | .16  | .54  | .06  |    |     | T.  | .12 |     |    |     | .08  |      | 1.17 | .11  |      |    |    |     | T.  | .01 | .01 |     |    | 3.01   |
| Conway            | .17           |   |   |   |   | T.  | .40 |      |      | .15  | .75  |    |     | T.  |     |     |    |     | T.   | .25  | 1.75 | .05  |      |    |    |     |     |     |     |     |    | 3.52   |
| Darlington        | .24           |   |   |   |   | T.  | .60 | .60  | .10  | .34  | .50  |    |     |     |     |     |    |     | .05  | .20  | 1.60 | .52  |      |    |    | .01 |     | .01 |     |     |    | 3.57   |
| Dillon            |               |   |   |   |   | .60 |     | .60  |      |      |      |    |     |     |     |     |    |     | .30  | .20  | 1.60 | .52  |      |    |    |     |     |     |     |     |    | 3.20   |
| Due West          | .14           |   |   |   |   | .23 | .69 | .18  |      | .44  |      |    |     |     | .09 |     |    |     | .87  |      | .80  | .30  |      |    |    |     |     | .05 |     |     |    | 3.79   |
| Edisto            |               |   |   |   |   |     | .50 | .50  |      | .70  |      |    |     |     |     |     |    |     | .10  | .30  | 1.80 |      |      |    |    |     |     | .44 |     |     |    | 4.34   |
| Effingham         |               |   |   |   |   | .80 |     |      |      |      |      |    |     |     |     |     |    |     | 2.00 |      |      |      |      |    |    |     |     |     |     |     |    | 3.34   |
| Florence          | .54           |   |   |   |   | .07 | .55 |      |      | .06  |      |    |     | .12 |     |     |    |     | .10  | .95  | .10  | .98  |      |    |    | .02 | .05 |     | .02 |     |    | 3.02   |
| Gaffney           |               |   |   |   |   |     |     |      |      | 1.50 |      |    |     |     |     |     |    |     | .31  |      | 1.30 |      |      |    |    |     |     |     |     |     |    | 3.81   |
| Georgetown        |               |   |   |   |   | T.  | .62 | .58  |      | .15  |      |    |     |     | .45 |     |    |     | .28  | .98  | .20  | .70  | .05  |    |    | .15 | .02 | T.  | T.  |     |    | 4.13   |
| Gillisonville     |               |   |   |   |   |     |     | 1.11 |      | .85  |      |    |     |     | .20 |     |    |     | .11  | .52  | .45  | .87  |      |    |    |     |     |     |     |     |    | 4.43   |
| Greenville        |               |   |   |   |   |     |     |      |      |      |      |    |     | T.  |     |     |    |     | .48  |      | 1.45 | .05  |      |    |    | .10 | .02 |     |     |     |    | 3.16   |
| Greenwood         | .32           |   |   |   |   | .03 | .50 |      | .03  | .50  |      |    |     |     |     |     |    |     | .38  | .40  | 1.38 | .01  |      |    |    |     |     |     |     |     |    | 3.78   |
| Heath Springs     |               |   |   |   |   |     | .46 |      | .29  | .74  |      |    |     |     |     |     |    |     | .38  | .37  | 1.38 | .01  |      |    |    |     |     |     |     |     |    | 3.74   |
| Kingstree(1)      | .12           |   |   |   |   |     | .49 |      | .29  | .69  |      |    |     |     |     |     |    |     | .29  | .12  | 1.00 | .20  |      |    |    |     |     |     |     |     |    | 3.65   |
| Kingstree(2)      | .13           |   |   |   |   |     | .60 |      |      | .25  |      |    |     | T.  |     |     |    |     | 1.50 |      | .80  | .20  |      |    |    | T.  | .20 | T.  |     |     |    | 3.33   |
| Liberty           | T.            |   |   |   |   | .10 | .60 |      |      | .25  |      |    |     |     |     |     |    |     | .29  | .12  | 1.00 | .20  |      |    |    |     | .02 |     |     |     |    | 3.61   |
| Little Mountain   | .27           |   |   |   |   | T.  | .65 | .30  | .05  | .53  |      |    |     |     |     |     |    |     | .06  |      | 1.26 | .15  |      |    |    | T.  |     | .02 |     |     |    | 4.18   |
| Lugoff            | .54           |   |   |   |   | T.  | .90 | .02  | .60  | .06  |      |    |     | .04 |     |     |    |     | .41  | .45  | 1.07 | .12  |      |    |    |     | .05 | .02 |     |     |    | 4.60   |
| Newberry          |               |   |   |   |   | .01 | .08 | .90  |      | .14  | .80  |    |     |     |     |     |    |     | .60  | .49  | 1.46 |      |      |    |    |     |     |     |     | .15 |    | 4.32   |
| Pinopolis         | .16           |   |   |   |   |     | .35 | .02  |      | 1.52 |      |    |     |     |     |     |    |     | .20  | .75  | 1.16 | .06  |      |    |    |     |     |     |     |     |    | 4.81   |
| St. Georges       |               |   |   |   |   |     | .02 | .85  |      | .75  | .78  |    |     |     |     |     |    |     | .16  | .50  | 1.30 | .30  |      |    |    |     |     |     |     |     |    | 4.06   |
| St. Matthews      | .15           |   |   |   |   |     | .02 | .10  |      | 1.03 | 1.25 |    |     |     |     |     |    |     | .20  | .25  | 1.55 | T.   |      |    |    | .09 | .07 |     |     |     |    | 3.28   |
| St. Stephens      | .10           |   |   |   |   |     | .43 |      | .30  | 1.07 |      |    |     |     | .02 | .13 |    |     | .22  | .02  | .92  | .16  |      |    |    |     |     | T.  | T.  | T.  |    | 3.92   |
| Saluda            | .15           |   |   |   |   | .03 | .03 |      | .87  | .68  | .05  |    |     |     |     |     |    |     |      | 1.03 |      | 1.37 |      |    |    | .08 |     |     |     |     |    | 2.87   |
| Santuc            | .03           |   |   |   |   | .02 | .22 |      | .26  | .36  | .03  |    | .03 |     | T.  | .09 |    |     | T.   | .45  | .72  | .61  |      |    |    |     |     |     |     |     |    |        |
| Savannah, Ga.     | .05           |   |   |   |   | T.  | T.  | .09  | .24  | .46  | .25  |    |     |     |     |     |    |     |      |      |      |      |      |    |    |     |     |     |     |     |    |        |
| Seivern           |               |   |   |   |   |     |     | .18  |      | .12  | .20  |    |     |     | .06 |     |    |     | .42  | .50  | 1.20 |      |      |    |    |     |     |     |     |     |    | 2.76   |
| Smiths Mills      | .08           |   |   |   |   |     | .40 |      | .26  | .54  |      |    |     |     |     |     |    |     | .09  | .34  | 1.25 |      |      |    |    | .05 |     |     |     |     |    | 2.93   |
| Society Hill      |               |   |   |   |   | T.  | .13 | .46  |      | .02  |      |    |     | .30 |     |     |    |     | .52  |      | 1.50 |      |      |    |    | T.  | .05 | .05 | T.  |     |    | 3.03   |
| Spartanburg       |               |   |   |   |   |     | .71 |      | .30  | .68  | .02  |    |     | .07 |     |     |    |     | 1.55 | .09  |      |      |      |    |    |     |     | .21 | .02 |     |    | 3.75   |
| Stateburg         | .06           |   |   |   |   | T.  | .31 | T.   | .49  | 1.47 | .03  |    |     | .01 |     |     |    |     | .63  | .60  | 1.33 |      |      |    |    |     |     |     |     |     |    | 4.87   |
| Summerville       |               |   |   |   |   |     | .10 |      | .55  | T.   | T.   |    | .05 | .01 |     |     |    |     | .50  |      | .15  | .70  |      |    |    |     |     |     |     |     |    | 2.06   |
| Sumter            |               |   |   |   |   | .02 | .50 | .17  | .22  | .77  | .03  |    |     |     | .16 |     |    |     | .04  |      | .81  |      |      |    |    |     |     |     |     |     |    | 2.97   |
| Trenton           | .25           |   |   |   |   |     | .45 |      | .40  | 1.00 |      |    |     | T.  | .20 |     |    |     | .15  |      | 1.80 |      |      |    |    |     |     |     |     |     |    | 3.80   |
| Trial             |               |   |   |   |   |     | .55 |      |      | .30  |      |    |     |     |     |     |    |     | 1.40 |      | 1.20 | .25  |      |    |    |     | .15 |     |     |     |    | 4.05   |
| Walhalla          |               |   |   |   |   | T.  |     | .33  | .56  | 1.72 | .23  |    |     |     |     |     |    |     | .03  |      | .54  | .77  | 1.04 |    |    |     |     |     |     |     |    | 5.25   |
| Walterboro        | .13           |   |   |   |   | T.  | .19 | .06  | .35  | .06  |      |    |     |     | .07 |     |    |     | T.   | .16  | .31  | .57  |      |    |    | T.  | .20 | T.  |     |     |    | 2.19   |
| Wilmington, N. C. | .22           |   |   |   |   | T.  | .58 |      |      | .68  |      |    |     |     |     |     |    |     | .60  |      | 2.00 |      |      |    |    |     |     |     |     |     |    | 3.26   |
| Winnsboro         | T.            |   |   |   |   | T.  | .40 |      | .12  | .05  | .05  |    |     | T.  |     |     |    |     | 1.28 |      | 1.37 | .34  |      |    |    | T.  | .06 |     | .04 |     |    | 3.71   |
| Winthrop College  | T.            |   |   |   |   | T.  | .09 | .30  | T.   | 1.19 | 1.20 | T. |     | T.  |     |     |    |     | T.   | .53  | .51  | .82  |      |    |    |     |     |     |     |     |    | 4.77   |
| Yemassee          | .13           |   |   |   |   | T.  | .67 |      |      | .11  |      |    |     |     |     |     |    |     | 1.20 |      |      | 1.48 |      |    |    |     |     |     |     |     |    | 3.58   |
| Yorkville         |               |   |   |   |   |     |     |      |      |      |      |    |     |     |     |     |    |     |      |      |      |      |      |    |    |     |     |     |     |     |    |        |

T indicates trace, less than .01 inch.



1.53  
VNT,  
U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR MARCH, 1904.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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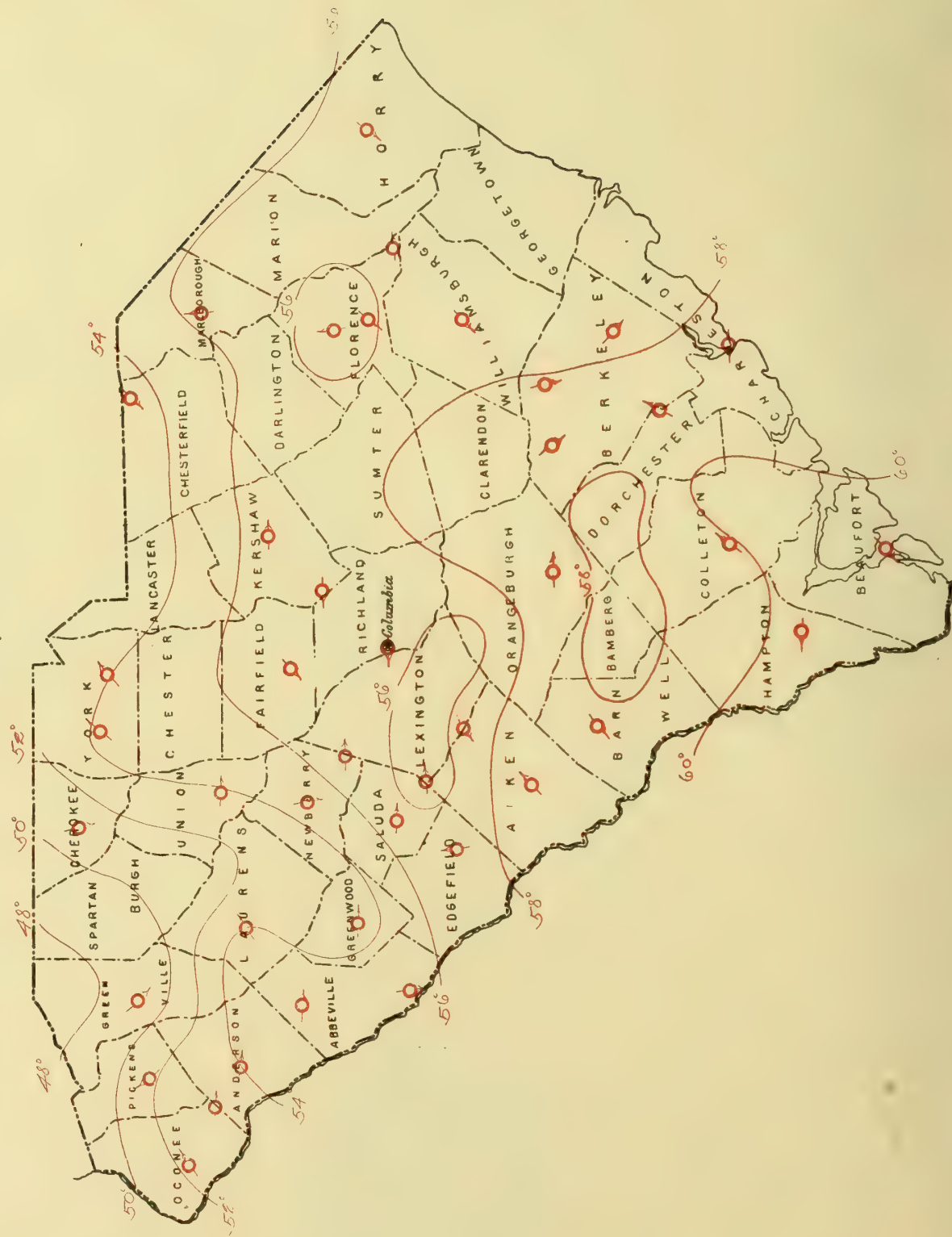
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

APRIL 23, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MARCH, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.  
**CLIMATE AND CROP SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.  
  
SOUTH CAROLINA SECTION.  
J. W. BAUER, Section Director.  
COLUMBIA, S. C.

VOL. VII. COLUMBIA, S. C., MARCH, 1904. No. 3.

**PROGRESS OF FARMWORK.**

The temperature during March was variable, but averaged slightly above normal. There was considerable freezing weather in the western portion, while on the coast the lowest point reached was 4° above freezing, with light frosts in this section on the 10th, 16th and 29th, and heavy frost on the 17th. In the western counties the frosts were generally killing ones on those dates, with thin ice on the 10th, 16th and 29th. However, over the western half of the State vegetation was not far enough advanced to be hurt, although in places peaches were more or less damaged. The damage to the commercial peach orchards, in the "ridge" section, was very slight.

The month's precipitation was wholly in the form of rain, that fell at frequent intervals, there having been general rains on the 2nd, 4th, 6th, 7th, 14th, 18th, 21st, and 27th. The rains were heavy in places on the 6th, 7th, 23rd, and 24th. A few localities had excessive precipitation, but as a rule it was slightly deficient, although the soil was kept supplied with sufficient moisture for easy tillage.

Farm work made rapid advance throughout the month in the eastern half, and after the 15th in the western half, especially the preparation of lands for corn, cotton and other staple crops. Planting operations were confined largely to the eastern and central counties where much corn, considerable rice and a little cotton were planted, as well as the usual minor crops and gardens. As a rule, planting operations made normal progress, with the soil in from good to excellent condition except in certain rice districts and in a few western counties where there was an excess of precipitation that delayed plowing and planting.

The cultivation of tobacco is receiving less attention than last year, but the plants in beds are vigorous though small for the season.

The weather was not persistently warm enough for the rapid growth of winter wheat and oats, although these grains made a marked improvement and are in fairly good condition. Spring oats germinated favorably and came up to good stands.

The truck raising districts were favored by the weather, and early vegetables were being marketed by the close of the month.

Pears, plums and early blooming varieties of peaches finished blooming in all but the extreme northwestern counties, where apple and cherry trees only began to bloom during the last decade.

Pastures made slow growth and afforded but scant grazing in the most favored localities, and none in the western portions.

**Barometer and Wind Table for March, 1904.**

| STATIONS.            | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                      | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                      |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....     | 30.08      | 30.53    | 5     | 29.76   | 11    | 5.732           | 7.7             | 36                | w.         | 15    |
| Charleston.....      | 30.09      | 30.51    | 5     | 29.70   | 11    | 9.038           | 12.1            | 44                | ne.        | 5     |
| Charlotte, N. C..... | 30.11      | 30.55    | 5     | 29.71   | 7     | 6.170           | 8.3             | 36                | sw.        | 3     |
| Columbia.....        | 30.09      | 30.58    | 5     | 29.72   | 11    | 8.727           | 11.7            | 49                | w.         | 15    |
| Savannah, Ga.....    | 30.08      | 30.44    | 5     | 29.75   | 11    | 6.886           | 9.3             | 31                | w.         | 11    |
| Wilmington, N. C.... | 30.08      | 30.58    | 5     | 29.63   | 11    | 7.336           | 9.9             | 40                | w.         | 15    |
| Averages.....        | 30.09      | 30.58    | 5     | 29.63   | 11    | 7.315           | 9.8             | 49                | w.         | 15    |

**CLIMATOLOGY FOR THE MONTH.**

**Temperature, in Degrees Fahrenheit.**

The mean temperature for March, 1904, was 56.2°, which is 1.6° above normal. The highest local mean was 60.9° at Beaufort; the lowest 49.1° at Greenville. The highest maximum was 87° at Blackwell on the 1st, the lowest minimum was 23° at Greenville and Santuc on the 16th and 17th, making the State range 64°. The greatest local monthly range was 60° at Clemson College and Gaffney, the least was 41° at Charleston and Heath Springs. The mean of the daily maximum temperatures was 69.7°, of the daily minimum temperatures 44.4°, making the average daily range 23.5°.

Frosts.—Frosts were of frequent occurrence, the latest date having been on the 29th. The last killing frost of the month was noted as follows: Anderson, Barksdale, Bennettsville, Bowman, Clarks Hill, Columbia, Due West, Lugoff, Stateburg, Summerville, Trenton, Winnsboro and Winthrop College, 16th; Batesburg, Beaufort, Camden, Cheraw, Conway, Darlington, Dillon, Florence, Effingham, Gillisonville, Kingstree, Newberry, St. Georges, St. Matthews, St. Stephens, Saluda, Santuc, Seivern, Smiths Mills, Trial, Walterboro, and Yemassee 17th; Society Hill, 15th; Clemson College, Gaffney, Liberty, Little Mountain, Spartanburg, Walhalla and Yorkville, 29th; Greenville, 30th.

**Precipitation, in Inches.**

The average precipitation was 3.42 inches, which is 0.41 below normal. The greatest local amount was 5.52 at Walhalla, the least was 1.54 at Charleston. The greatest 24-hour fall was 2.70 inches at Walhalla on the 6th. The average number of days with 0.01, or more, precipitation was 9, ranging from 4 at Calhoun Falls and Winnsboro to 14 at Camden and Cheraw (2).

Excessive Precipitation.—Walhalla, 2.70 in 24 hrs., on 6th. Hail.—Allendale, Camden, Little Mountain, Lugoff, 14th;



Barksdale, Due West, 24; Bowman, Santuc, 14, 23; Darlington, 11; Liberty, 21; Newberry, 13, 23; Walhalla, Winnsboro, 13.

Weather.—The average number of clear days was 13, of partly cloudy 9, and of cloudy 9.

Winds.—The prevailing direction of the wind was from the northeast and west at 12 stations, from the southwest at 8, from the east at 5, from the north and northwest at 4 each, from the south at 3, and from the southeast at 1 station.

High Winds.—Aiken, 10; Bowman, 3, 5, 6, 11, 15; Charleston, 5; Clarks Hill, Heath Springs, Saluda, Seivern, 11, 15; Columbia, 3, 11, 15; Liberty, 14, 15; Little Mountain, Newberry, Stateburg, 15; Lugoff, 4, 7, 11; Santuc, 11.

#### MISCELLANEOUS PHENOMENA (with dates).

Earthquake—Liberty, 13th, 10:30 p. m.

Luna Coronæ.—Blackville, 25.

Solar Halos.—Beaufort, Stateburg, 17; Charleston, 7, 10, 12, 13, 17, 26, 27, 29, 30, 31.

Lunar Halos.—Charleston, 29, 30; Gillisonville, 7, 30; Little Mountain, Santuc, 25; Stateburg, 26, 27, 29.

Dense Fogs.—Beaufort, 19, 21, 23; Blackville, 2, 10, 22; Bowman, Saluda, 22; Charleston, 2, 3, 10, 21, 22, 23, 25; Columbia, Greenville, 3, 22; Gillisonville, 20, 21, 22, 25; Heath Springs, 2; Liberty, 3; Little Mountain, 24; Lugoff, 25; Santuc, 3, 23; Seivern, 2, 21, 22, 23, 24, 25; Society Hill, 23, 25; Stateburg, 2, 22, 23; Summerville, 1, 2, 3, 10, 19, 22; Trial, 21, 24, 25; Yorkville, 3, 23.

Thunderstorms.—Aiken, 24, 26; Allendale, Camden, 14; Anderson, Clarks Hill, Trenton, 24; Barksdale, 14, 21, 23; Beaufort, 1, 3, 6, 11, 14, 21, 23, 26, 31; Blackville, 3, 14, 21, 23; Bowman, 1, 4, 14, 21, 23, 26; Cheraw, 22; Cheraw (2) 3, 13, 23, 26; Darlington, 11; Dillon, 2, 3, 7, 14, 18, 24; Due West, 3, 14, 24; Florence, 2, 3; Gillisonville, 1, 3, 14, 23, 26; Liberty, 1, 2, 11, 14, 21. Little Mountain, 2, 14, 23; Lugoff, 2, 3, 4, 14, 24; Newberry, 1, 2, 3, 13; Saluda, 13, 21, 24; Santuc, 2, 3, 14, 23; Seivern, 3, 4, 14, 21, 24; Society Hill, Trial, 23; Spartanburg, Winnsboro, 13; Stateburg, 3, 7, 14, 23, 26; Summerville, 2, 3, 6, 21, 23, 26; Walhalla, 1, 10, 13, 22; Walterboro, 2, 4, 24, 26; Winthrop College, 6, 7, 13, 14, 23, 24, 27; Yemassee, 1, 3, 23, 26; Yorkville, 14, 23.

Summarized by dates, there were 7 on the 1st, 10 on the 2nd, 13 on the 3rd, 4 on the 4th, 3 on the 6th, 3 on the 7th, 1 on the 10th, 4 on the 11th, 7 on the 13th, 17 on the 14th, 1 on the 18th, 8 on the 21st, 2 on the 22nd, 15 on the 23rd, 11 on the 24th, 9 on the 26th, 1 on the 27th, and 1 on the 31st, making a total of 117 thunderstorms with 18 dates of occurrence. Thunderstorms occurred at Charleston on the 1, 3, 7, 11, 21; at Columbia on the 2, 3, 14, 23, 26.

Errata.—In the January number of the Monthly Report, on page 5, minimum temperature at Due West on 3rd, should be 5th; Trial, maximum temperature on 21st should be 22nd; Liberty, mean temperature 39.6° should be 38.6°. In the February Monthly Report, page 5, Batesburg, minimum

temperature 21°, should be 20°; Dillon, number of days missing "e" should be "f"; Greenwood, mean temperature 40.6° should be 40.8°; Little Mountain, total precipitation, pages 5 and 8, 3.32 should be 3.43; Stateburg, maximum temperature 74° on 24th should be 76° on 7th; Trial, maximum temperature on 24th should be 7th and 24th; Winthrop College, minimum temperature on 2nd should be 2nd and 11th. Page 6, Greenville, mean minimum temperature 25.6° should be 25.7°.

#### REMARKS BY OBSERVERS.

Aiken.—March 10th tulips, hyacinths and spiræa were in full bloom. A warm month without frost.—C. F. McGahan, M. D.

Anderson.—The month was too wet to accomplish much farm work.—R. B. Dean.

Barksdale.—Plowing was practicable on 13 days. Frost on 29th did not kill fruit. Apple trees and nearly all other fruit trees finished blooming.—J. T. Garrett.

Batesburg.—Farm work advanced rapidly. Corn was planted and came up. There was no injury to the fruit crop. Small grains improved.—E. J. Hite.

Beaufort.—Mean temperature was 2.4° above normal; precipitation 0.65 inch below. Some cotton and corn were planted.—S. M. Benton.

Bowman.—The month was favorable for general farm work. A series of thunderstorms occurred on the 23rd, lasting over six hours. The display of lightning was unusual. Fruit is safe. Strawberries began ripening.—B. O. Evans.

Clarks Hill.—Frost and ice on the 4th injured peach blooms, especially on low lands, but the crop was not materially reduced thereby.—Wm. S. Middleton.

Darlington.—A dust-storm occurred on the 15th. Heavy frost on the 16th that apparently did no damage.—Hon. E. R. McIver.

Dillon.—The month was warmer than usual, but with few clear days.—A. E. Rowell.

Gillisonville.—The month was warm and wet, and was favorable for planting corn, and germination, so that it came up to good stands. Some cotton was planted. Oats are very promising.—Sam P. Saltus.

Heath Springs.—The weather was favorable for rapid progress of farm work. Some corn was planted. Farm stock wintered well. The wheat crop is in good condition.—J. A. Weaner.

Liberty.—Peach, some pear, and plum trees in full bloom. Some corn was planted. Wheat growing nicely. Farm work made rapid progress.—Jno. T. Boggs.



CLIMATOLOGICAL DATA FOR THE MONTH OF MARCH, 1904.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit |                            |          |       |         |       | Precipitation—inches  |        |                            |                       | Sky                        |                    |                    |                            |                       | Observers. |                               |
|---------------------------------------|---------------|-----------------|-------------------------|-----------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|-----------------------|------------|-------------------------------|
|                                       |               |                 |                         | Mean.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. |            | Prevailing direction of wind. |
| Aiken.                                | Aiken.        | 565             | 3                       | 58.4                              | +4.0                       | 83       | 23    | 29      | 16    | 35                    | 3.40   | 1.20                       | 1.10                  | .....                      | 8                  | 28                 | 3                          | 0                     | sw.        | Dr. C. F. McGahan.            |
| Allendale.                            | Barnwell.     | 186             | 16                      | 59.9                              | +3.8                       | 82       | *21   | 33      | 17    | 33                    | 4.75   | +1.44                      | 1.10                  | .....                      | 7                  | 15                 | 0                          | 16                    | .....      | C. A. Glover.                 |
| Anderson.                             | Anderson.     | 764             | 3                       | 54.7                              | +3.8                       | 80       | 20    | 27      | 16    | 35                    | 3.76   | -1.32                      | 0.97                  | .....                      | 9                  | 16                 | 6                          | 9                     | w.         | R. B. Dean.                   |
| Augusta, Ga.                          | Richmond.     | 131             | 33                      | 58.6                              | +3.1                       | 82       | 26    | 33      | 16    | 32                    | 4.04   | -1.15                      | 2.06                  | .....                      | 11                 | 15                 | 12                         | 4                     | nw.        | Weather Bureau.               |
| Barksdale.                            | Laurens.      | 780             | 3                       | 54.0                              | .....                      | 81       | 20    | 26      | 16    | 32                    | 2.70   | .....                      | 0.83                  | .....                      | 11                 | 10                 | 12                         | 9                     | sw.        | J. T. Garrett.                |
| Batesburg.                            | Lexington.    | 656             | 16                      | 55.2                              | +0.3                       | 82       | *20   | 25      | 5     | 42                    | 4.13   | +0.13                      | 1.53                  | .....                      | 8                  | 13                 | 5                          | 13                    | w.         | E. J. Hite.                   |
| Beaufort.                             | Beaufort.     | 28              | 18                      | 60.9                              | +2.4                       | 80       | *23   | 36      | 16    | 29                    | 2.44   | -0.65                      | 1.00                  | .....                      | 9                  | 8                  | 19                         | 1                     | ne.        | S. M. Benton.                 |
| Bennettsville.                        | Marlboro.     | .....           | 3                       | 56.4                              | .....                      | 82       | *20   | 30      | *4    | 43                    | 2.86   | .....                      | 1.24                  | .....                      | 7                  | 22                 | 4                          | 5                     | ne.        | Jno. L. McCall.               |
| Blackville.                           | Barnwell.     | 296             | 16                      | 58.2                              | +1.6                       | 87       | 1     | 31      | 16    | 44                    | 4.11   | +0.54                      | 1.60                  | .....                      | 10                 | 9                  | 22                         | 0                     | ne.        | G. D. C. Lange.               |
| Bowman.                               | Orangeburg.   | 160             | 3                       | 59.0                              | .....                      | 84       | *22   | 30      | 16    | 40                    | 3.77   | .....                      | 1.05                  | .....                      | 6                  | 15                 | 15                         | 1                     | w.         | B. O. Evans.                  |
| Calhoun Falls.                        | Abbeville.    | 508             | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.49   | 1.08                       | 1.56                  | .....                      | 4                  | 20                 | 0                          | 11                    | n.         | P. J. Plummer.                |
| Camden.                               | Kershaw.      | 222             | 38                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | 3.61   | +0.14                      | 0.75                  | .....                      | 14                 | 13                 | 3                          | 15                    | e.         | H. G. Garrison.               |
| Charleston.                           | Charleston.   | 48              | 35                      | 58.7                              | +2.0                       | 77       | 23    | 36      | 5     | 24                    | 1.54   | -2.40                      | 0.67                  | .....                      | 12                 | 5                  | 22                         | 4                     | e.         | Weather Bureau.               |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 26                      | 52.0                              | -2.1                       | 79       | 20    | 27      | 5     | 31                    | 2.60   | -2.14                      | 0.78                  | .....                      | 13                 | 9                  | 9                          | 13                    | ne.        | Weather Bureau.               |
| Cheraw (1).                           | Chesterfield. | 144             | 16                      | 53.7                              | +0.7                       | 81       | 20    | 28      | *5    | 36                    | 3.50   | 0.23                       | 0.75                  | .....                      | 10                 | 11                 | 6                          | 14                    | ne.        | W. R. Godfrey.                |
| Cheraw (2).                           | .....         | 144             | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | 4.02   | +0.31                      | 1.36                  | .....                      | 14                 | 13                 | 3                          | 15                    | ne.        | Jno. H. Powe.                 |
| Clarks Hill.                          | Edgefield.    | 456             | 2                       | 57.9                              | .....                      | 81       | 26    | 29      | 16    | 35                    | 3.42   | .....                      | 1.00                  | .....                      | 7                  | 5                  | 10                         | 16                    | .....      | Wm. S. Middleton.             |
| Clemson College.                      | Oconee.       | 850             | 13                      | 53.8                              | +1.1                       | 84       | 31    | 24      | 4     | 46                    | 4.77   | +0.30                      | 1.40                  | .....                      | 8                  | 3                  | 18                         | 10                    | w.         | Prof. C. C. Newman.           |
| Columbia.                             | Richland.     | 351             | 17                      | 56.9                              | +2.7                       | 82       | 23    | 30      | 5     | 30                    | 2.63   | 1.90                       | 0.97                  | .....                      | 13                 | 9                  | 11                         | 11                    | .....      | Central Office.               |
| Conway.                               | Horry.        | 25              | 13                      | 56.6                              | .....                      | 84       | 23    | 28      | 16    | 39                    | 4.68   | +1.11                      | 1.70                  | .....                      | 9                  | 24                 | 1                          | 6                     | ne.        | McQ. Quattlebaum.             |
| +Darlington.                          | Darlington.   | 175             | 9                       | 57.3                              | .....                      | 84       | 20    | 27      | 16    | 35                    | 2.47   | -0.73                      | 0.82                  | .....                      | 9                  | 16                 | 10                         | 5                     | .....      | E. H. Melver.                 |
| Dillon.                               | Marion.       | 100             | 0                       | 57.2                              | .....                      | 84       | *20   | 27      | 16    | 41                    | 2.60   | .....                      | 1.00                  | .....                      | 7                  | .....              | .....                      | .....                 | w.         | A. E. Rowell.                 |
| Due West.                             | Abbeville.    | 740             | 8                       | 54.8                              | .....                      | 79       | 23    | 27      | 16    | 35                    | 3.33   | .....                      | 0.96                  | .....                      | 10                 | 14                 | 6                          | 11                    | .....      | Rev. O. Y. Bonner.            |
| Edisto.                               | Bamberg.      | 127             | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....                 | .....      | J. L. Padgett.                |
| Edingham.                             | Florence.     | 106             | 12                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | 3.46   | +0.54                      | 0.92                  | .....                      | 11                 | 13                 | 6                          | 12                    | ne.        | H. B. McCall.                 |
| Florence.                             | Florence.     | 136             | 16                      | 55.2                              | +0.1                       | 85       | 20    | 27      | 16    | 39                    | 2.23   | -0.67                      | 0.80                  | .....                      | 7                  | 10                 | 5                          | 16                    | s.         | H. K. Gilbert.                |
| Gaffney.                              | Cherokee.     | 893             | 8                       | 51.6                              | .....                      | 85       | 20    | 25      | 16    | 47                    | 3.43   | -1.93                      | 1.32                  | .....                      | 11                 | .....              | .....                      | .....                 | n.         | B. F. Camp.                   |
| Georgetown.                           | Georgetown.   | 12              | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....                 | .....      | W. T. Turbeville.             |
| Gillisonville.                        | Hampton.      | 50              | 9                       | 61.3                              | +2.0                       | 83       | 23    | 32      | 17    | 33                    | 4.75   | +1.51                      | 1.50                  | .....                      | 9                  | 14                 | 11                         | 6                     | e.         | Sam P. Saltus.                |
| Greenville.                           | Greenville.   | 989             | 12                      | 49.1                              | -0.6                       | 78       | 20    | 23      | *16   | 44                    | 3.99   | -1.23                      | 1.65                  | .....                      | 9                  | 10                 | 7                          | 14                    | nw.        | Mrs. S. A. Crittenden.        |
| Greenwood +.                          | Greenwood.    | 671             | 16                      | 52.8                              | -1.9                       | 79       | 20    | 29      | 16    | 36                    | 2.68   | -1.63                      | 0.81                  | .....                      | 6                  | 14                 | 1                          | 16                    | w.         | M. M. Calhoun.                |
| Heath Springs.                        | Lancaster.    | .....           | 3                       | 54.0                              | .....                      | 77       | 2     | 35      | *16   | 26                    | 2.72   | .....                      | 0.96                  | .....                      | 8                  | 16                 | 10                         | 5                     | w.         | J. A. Weaner.                 |
| Kingstree (1).                        | Williamsburg. | 54              | 16                      | 56.4                              | 0.0                        | 82       | 23    | 31      | 5     | 38                    | 4.20   | +1.33                      | 2.02                  | .....                      | 11                 | 11                 | 7                          | 13                    | .....      | S. H. Beard.                  |
| Kingstree (2).                        | .....         | 54              | 10                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | 4.22   | +1.38                      | 2.00                  | .....                      | 10                 | 11                 | 9                          | 11                    | ne.        | A. O. Matthews.               |
| Liberty.                              | Pickens.      | 900             | 10                      | 52.6                              | +1.2                       | 81       | 20    | 25      | 17    | 36                    | 4.34   | -0.72                      | 1.95                  | .....                      | 6                  | 11                 | 8                          | 12                    | se.        | Jno. T. Boggs.                |
| Little Mountain.                      | Newberry.     | 711             | 11                      | 56.4                              | +1.1                       | 83       | 20    | 29      | *4    | 30                    | 1.99   | 1.57                       | 0.63                  | .....                      | 12                 | 9                  | 13                         | 9                     | w.         | John M. Sease, M. D.          |
| Lugoff.                               | Kershaw.      | 168             | 3                       | 57.9                              | .....                      | 85       | *20   | 26      | 16    | 38                    | 1.57   | .....                      | 0.46                  | .....                      | 12                 | 10                 | 14                         | 7                     | w.         | W. J. Burdell, M. D.          |
| Newberry.                             | Newberry.     | 502             | 0                       | 55.7                              | +2.5                       | 81       | *20   | 26      | 16    | 37                    | 3.18   | -1.00                      | 1.16                  | .....                      | 11                 | 9                  | 10                         | 12                    | n.         | W. G. Peterson.               |
| Pinopolis.                            | Berkeley.     | 54              | 11                      | 57.7                              | +2.1                       | 76       | *1    | 35      | 16    | 26                    | 4.00   | +0.94                      | 1.35                  | .....                      | 9                  | 11                 | 13                         | 7                     | nw.        | E. P. Raynel.                 |
| St. Georges.                          | Dorchester.   | 109             | 16                      | 57.2                              | +0.4                       | 81       | 23    | 34      | *16   | 41                    | 3.84   | +0.55                      | 1.16                  | .....                      | 9                  | 12                 | 4                          | 15                    | .....      | W. B. Raynor.                 |
| St. Matthews.                         | Orangeburg.   | 269             | 16                      | 56.2                              | +1.1                       | 80       | 23    | 32      | *5    | 41                    | 4.32   | +1.13                      | 1.28                  | .....                      | 10                 | 12                 | 6                          | 13                    | .....      | J. S. Warmaker.               |
| St. Stephens.                         | Berkeley.     | 73              | 12                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | 3.50   | +0.42                      | 1.08                  | .....                      | 11                 | 15                 | 3                          | 13                    | n.         | C. T. Shuler.                 |
| Saluda.                               | Saluda.       | 536             | 3                       | 56.6                              | .....                      | 83       | 23    | 26      | 16    | 40                    | 2.35   | .....                      | 0.77                  | .....                      | 11                 | 19                 | 3                          | 9                     | w.         | Alvin Etheridge.              |
| Santuc.                               | Union.        | 512             | 11                      | 53.4                              | +0.8                       | 82       | 20    | 23      | 16    | 47                    | 3.03   | -1.42                      | 0.52                  | .....                      | 12                 | 8                  | 10                         | 13                    | w.         | E. W. Jeter.                  |
| Savannah, Ga.                         | Chatham.      | 71              | 35                      | 61.8                              | +3.3                       | 82       | 23    | 40      | 16    | 26                    | 1.61   | -2.17                      | 0.55                  | .....                      | 7                  | 7                  | 18                         | 6                     | sw.        | Weather Bureau.               |
| Seivern.                              | Aiken.        | 482             | 3                       | 58.2                              | +2.6                       | 83       | 23    | 26      | 16    | 40                    | 3.23   | +0.04                      | 1.14                  | .....                      | 10                 | 12                 | 13                         | 6                     | ne.        | Geo. C. Gunter.               |
| Smiths Mills.                         | Williamsburg. | 62              | 9                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | 5.51   | +2.05                      | 2.00                  | .....                      | 9                  | 13                 | 3                          | 15                    | w.         | H. van Keuren.                |
| Society Hill.                         | Darlington.   | 192             | 13                      | 55.6                              | +0.5                       | 80       | 20    | 29      | 4     | 40                    | 2.60   | -0.75                      | 0.70                  | .....                      | 13                 | 11                 | 13                         | 7                     | ne.        | J. J. Lucas.                  |
| Spartanburg.                          | Spartanburg.  | 875             | 13                      | 50.8                              | +0.6                       | 82       | 20    | 25      | *4    | 42                    | 5.00   | +0.79                      | 2.00                  | .....                      | 7                  | 17                 | 0                          | 14                    | .....      | F. P. Robinson.               |
| Stateburg.                            | Sumter.       | 500             | 27                      | 58.7                              | +4.1                       | 82       | *1    | 30      | *5    | 34                    | 3.80   | +0.06                      | 1.52                  | .....                      | 12                 | 9                  | 11                         | 11                    | e.         | W. W. Anderson, M. D.         |
| Summerville.                          | Dorchester.   | 75              | 7                       | 59.6                              | +3.1                       | 84       | 23    | 31      | 15    | 44                    | 3.92   | +1.23                      | 1.41                  | .....                      | 11                 | 17                 | 9                          | 5                     | sw.        | Miss L. R. Gadsden.           |
| Sumter.                               | Sumter.       | 169             | 3                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....                 | .....      | Wm. D. Shaw.                  |
| +Trenton h.                           | Edgefield.    | 620             | 11                      | 56.6                              | -0.6                       | 81       | 26    | 28      | 4     | 34                    | 2.89   | -0.35                      | 1.10                  | .....                      | 8                  | 7                  | 14                         | 3                     | s.         | C. A. Long.                   |
| Tryon.                                | Berkeley.     | 85              | 18                      | 58.6                              | +3.7                       | 83       | 23    | 28      | 16    | 41                    | 2.34   | -1.38                      | 0.78                  | .....                      | 7                  | 14                 | 13                         | 4                     | nw.        | Etsell Gaillard.              |
| Walhalla.                             | Oconee.       | 1061            | 13                      | 52.6                              | +2.6                       | 79       | 20    | 24      | *4    | 42                    | 5.52   | -1.26                      | 2.70                  | .....                      | 8                  | 15                 | 5                          | 11                    | sw.        | J. D. Isbell.                 |
| Walterboro.                           | Colleton.     | .....           | 1                       | 61.7                              | .....                      | 86       | *21   | 32      | 17    | 37                    | 5.38   | .....                      | 1.87                  | .....                      | 12                 | 8                  | 21                         | 2                     | sw.        | J. A. Westerberg.             |
| Wilmington, N. C.                     | New Hanover.  | 52              | 35                      | 55.0                              | +1.1                       | 80       | 23    | 29      | 5     | 32                    | 4.33   | +0.38                      | 0.95                  | .....                      | 12                 | 9                  | 17                         | 5                     | ne.        | Weather Bureau.               |
| Winnsboro.                            | Fairfield.    | 545             | 15                      | 56.8                              | +4.7                       | 82       | 20    | 31      | 5     | 27                    | 2.08   | -1.53                      | 0.73                  | .....                      | 4                  | 19                 | 10                         | 2                     | ne.        | John W. Seigler.              |
| Winthrop College.                     | York.         | 690             | 5                       | 54.0                              | +1.4                       | 80       | 20    | 20      | 16    | 29                    | 2.76   | -1.50                      | 0.84                  | .....                      | 10                 | 16                 | 13                         | 2                     | sw.        | Geo. B. Green.                |
| Yemassee.                             | Beaufort.     | 23              | 9                       | 59.5                              | +0.9                       | 85       | 23    | 31      | *16   | 32                    | 3.26   | +0.21                      | 1.13                  | .....                      | 8                  | 10                 | 7                          | 14                    | .....      | J. G. Hutson.                 |
| Yorkville.                            | York.         | 680             | 16                      | 54.4                              | +1.3                       | 85       | 20    | 27      | 16    | 35                    | 2.58   | -2.32                      | 0.58                  | .....                      | 11                 | 3                  | 15                         | 13                    | sw.        | J. R. Schorb.                 |
| MEANS—highest, lowest and dates, etc. | .....         | .....           | .....                   | 56.2                              | +1.6                       | 87       | 1     | 23      | *16   | 47                    | 3.42   | -0.41                      | 2.70                  | .....                      | 9                  | 13                 | 9                          | 9                     | ne.        | .....                         |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
 § Exposed not standard. \* On other dates also. a indicates 1 day missing. b, 2 days, etc.



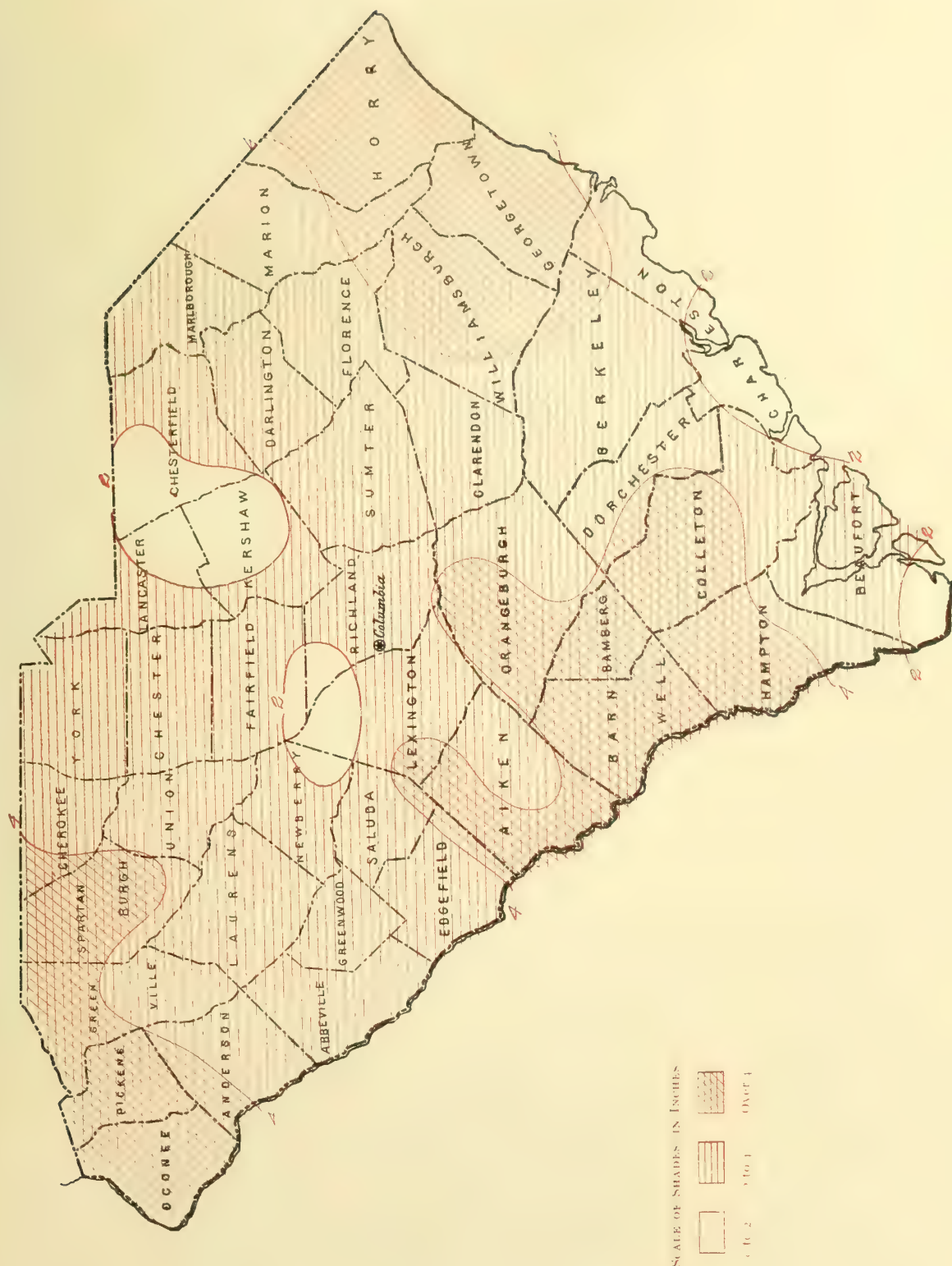
### STATIONS.

| STATIONS. | 1    |      | 2    |      | 3    |      | 4    |      | 5    |      | 6    |      | 7    |      | 8    |      | 9    |      | 10   |      | 11   |      | 12   |      | 13   |      | 14   |      | 15   |      | 16   |      | 17   |      | 18   |      | 19   |      | 20   |      | 21   |      | 22   |      | 23   |      | 24   |      | 25   |      | 26   |      | 27   |      | 28   |      | 29   |      | 30   |      | 31   |      | Monthly mean. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      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|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-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|           | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max.          | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. 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| Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |

a indicates 1 day missing, b 2 days, etc,



# TOTAL PRECIPITATION FOR MARCH, 1904.



SCALE OF SHADES IN INCHES





## DAILY PRECIPITATION FOR SOUTH CAROLINA, MARCH, 1904.

| STATIONS.         | Day of Month. |     |     |      |     |      |      |     |     |    |     |     |     |     |     |    |    |     |     |     |     |      |      |      |      |      |      |     |     |    |      | Total, |
|-------------------|---------------|-----|-----|------|-----|------|------|-----|-----|----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|----|------|--------|
|                   | 1             | 2   | 3   | 4    | 5   | 6    | 7    | 8   | 9   | 10 | 11  | 12  | 13  | 14  | 15  | 16 | 17 | 18  | 19  | 20  | 21  | 22   | 23   | 24   | 25   | 26   | 27   | 28  | 29  | 30 | 31   |        |
| Aiken             |               |     |     | .20  |     | .40  | .25  |     |     |    |     |     |     | .10 |     |    |    |     | .10 |     | .80 |      |      |      |      | .45  |      |     |     |    | 3.40 |        |
| Allendale         |               | .50 | T.  | 1.05 |     |      | .25  |     |     |    |     |     |     | .20 |     |    |    |     |     |     |     | .60  |      | 1.10 |      |      |      |     |     |    | 4.75 |        |
| Anderson          |               | .13 | .05 |      |     | .45  | .97  |     |     |    | T.  |     | T.  | .45 |     |    |    |     |     |     | .67 | .04  | .79  | .21  | T.   |      |      |     |     |    | 3.76 |        |
| Augusta, Ga.      |               |     | .02 | .11  |     | .32  | .50  |     |     |    | T.  |     |     | .03 |     |    |    | .01 |     | T.  |     | .12  | 2.06 | T.   | .27  | .33  |      |     |     |    | 4.04 |        |
| Barksdale         |               | .23 | .24 |      |     | .17  | T.   | .83 |     |    | T.  |     |     | .25 |     |    |    |     |     |     | .31 | .02  | .32  | .20  | .03  | .10  |      |     |     |    | 2.70 |        |
| Batesburg         |               |     | .32 | .23  |     |      | 1.53 |     |     |    |     |     |     | .47 |     |    |    | .39 |     |     |     | .62  | .12  | .45  |      |      |      |     |     |    | 4.13 |        |
| Beaufort          |               |     |     | .37  | T.  | .55  | .30  |     |     |    | .06 |     |     | .07 |     |    |    |     |     |     | .06 | T.   | .01  | 1.00 |      | .02  |      |     |     |    | 2.44 |        |
| Bennettsville     |               |     | T.  |      |     |      | 1.24 |     |     |    |     |     | T.  | .40 |     |    |    |     |     | .09 |     | .19  | .15  | .09  | .70  |      |      |     |     |    | 2.86 |        |
| Blackville        |               | .04 |     | .44  |     |      | .60  |     |     |    |     |     |     | .14 | T.  |    |    | .03 |     |     |     | .58  |      | 1.60 | .02  | .56  | .10  |     |     |    | 4.11 |        |
| Bowman            | .15           |     |     | .45  |     |      |      |     |     |    |     |     |     | .20 |     |    |    |     |     |     | .32 |      | 1.95 | T.   | .70  |      |      |     |     |    | 3.77 |        |
| Calhoun Falls     |               |     |     |      |     |      | 1.56 |     |     |    |     |     |     | .29 |     |    |    |     |     |     |     | .42  |      |      |      | .22  |      |     |     |    | 2.49 |        |
| Camden            |               | .04 | .06 | .28  |     | .01  | .57  | .22 |     |    | .07 |     | T.  | .40 |     |    |    | .05 |     |     |     | .02  | .39  |      | .35  | .75  | .40  |     |     |    | 3.61 |        |
| Charleston        |               | .01 | .01 | .15  |     | .13  | .32  |     |     |    | .14 |     |     | .02 |     |    |    | .02 |     |     | .02 | .01  |      | .67  | T.   | .04  |      |     |     |    | 1.54 |        |
| Charlotte, N. C.  | T.            | .02 | .20 |      |     | T.   | .78  |     |     |    | .14 |     | .02 | .21 |     |    |    | .02 |     |     | .17 | .01  | .51  | .15  | .10  | .27  |      |     | T.  |    | 2.60 |        |
| Cheraw(1)         |               | .04 | T.  | .46  |     |      | .75  | .26 |     |    |     |     |     | .35 |     |    |    | .08 |     |     |     |      | .26  | .53  | T.   | .72  | .05  |     |     |    | 3.50 |        |
| Cheraw(2)         |               | .03 | .04 | .43  |     |      | .73  | .27 |     |    | .03 | T.  |     | .36 | .03 |    |    | .07 |     |     |     | .03  | .27  | .33  | T.   | 1.36 | .04  |     |     |    | 4.02 |        |
| Clark's Hill      |               | T.  | T.  | T.   | .26 | 1.00 |      |     |     |    |     |     |     | .10 |     |    |    |     |     |     | .73 | .59  |      | .70  |      | .04  |      |     |     |    | 3.42 |        |
| Clemson College   | T.            | .09 | .03 |      |     | 1.40 | 1.00 |     |     |    |     |     | T.  |     |     |    |    |     |     |     |     | .84  | .02  | 1.38 |      | .01  |      |     |     |    | 4.77 |        |
| Columbia          |               | .27 | .03 | .09  |     | T.   | .47  |     |     |    | T.  |     | T.  | .14 |     |    |    | .10 |     |     | T.  | .15  | .01  | .03  | .34  | .55  | .42  | .03 |     |    | 2.63 |        |
| Conway            |               | .25 | .12 | .85  |     |      | 1.06 | .05 |     |    |     |     |     | .10 |     |    |    | T.  | .05 |     |     | T.   |      |      | 1.70 | .50  | T.   |     |     |    | 4.68 |        |
| Darlington        |               | .44 | .08 |      |     | T.   | .82  |     |     |    | .01 |     |     | .22 |     |    |    | .12 |     |     | .05 |      |      | .21  |      | .52  |      |     |     |    | 2.47 |        |
| Dillon            |               | .10 | .40 |      |     |      | 1.00 |     |     |    |     |     |     | .40 |     |    |    | .10 |     |     |     |      |      | .30  |      | .30  |      |     |     |    | 2.60 |        |
| Due West          |               | .21 | .03 | .05  |     | .40  | .96  |     |     |    | T.  |     |     | .30 |     |    |    |     |     |     |     | .44  | .06  |      | .76  |      | .12  |     |     |    | 3.33 |        |
| Edisto            |               |     |     |      |     |      |      |     |     |    |     |     |     |     |     |    |    |     |     |     |     |      |      |      |      |      |      |     |     |    |      |        |
| Effingham         |               | .04 | .04 | .90  |     |      | .66  |     |     |    |     |     |     | .03 |     |    |    | .03 |     |     |     | .04  | .04  | .66  |      | .10  | .92  |     |     |    | 3.46 |        |
| Florence          |               | .13 | .25 |      |     |      | .26  | .37 |     |    |     |     |     |     |     |    |    |     |     |     |     | .10  | .32  |      | .80  |      |      |     |     |    | 2.23 |        |
| Gaffney           |               | .20 | .10 | .03  |     |      | 1.32 |     |     |    | .11 |     |     | .40 |     |    |    |     |     |     |     | .03  | .20  | .43  | .50  |      | .11  |     |     |    | 3.43 |        |
| Georgetown        |               |     |     |      |     |      |      |     |     |    |     |     |     |     |     |    |    |     |     |     |     |      |      |      |      |      |      |     |     |    |      |        |
| Gillisonville     | .86           |     | .20 |      |     | .75  | T.   |     |     |    | .18 |     |     | .16 |     |    |    |     |     |     | T.  | .20  |      | .79  |      | 1.50 | .11  |     |     |    | 4.75 |        |
| Greenville        |               | T.  | T.  | .10  |     |      | 1.65 |     |     |    | .02 |     |     | .42 |     |    |    |     |     |     |     | .48  | .63  | .41  | .02  | T.   | .26  |     |     | T. | 3.99 |        |
| Greenwood         |               |     | .28 | .20  |     |      | .81  |     |     |    |     |     |     | .46 |     |    |    |     |     |     |     | .32  |      |      |      |      | .61  |     |     |    | 2.68 |        |
| Heath Springs     |               |     | .42 |      |     |      | .96  |     |     |    | .07 |     | T.  | .35 |     |    |    |     |     |     |     | .01  |      | .56  |      | T.   | .20  | .05 |     |    | 2.72 |        |
| Kingstree(1)      |               | .04 | .03 | .44  |     |      | .60  |     |     |    |     | .08 |     |     | .06 |    |    | .09 | .01 |     |     | .03  |      | .80  |      |      |      |     |     |    | 4.20 |        |
| Kingstree(2)      |               | .06 | .02 | .40  |     |      | .64  | T.  |     |    |     |     |     |     | .08 |    |    | .09 | T.  |     |     | .04  | T.   |      | .82  |      | 2.00 |     |     |    | 4.22 |        |
| Liberty           | .05           | .02 | T.  |      |     |      | 1.95 |     |     |    | T.  |     | T.  | .52 |     |    |    |     |     |     | T.  | .80  | T.   | 1.00 | T.   | T.   |      |     | T.  | T. | 4.34 |        |
| Little Mountain   |               | .24 | .12 |      |     | .05  | .58  |     |     |    | .09 |     |     | .30 |     |    |    | .03 |     |     |     | .12  | .02  | .06  | .08  | .30  |      |     |     |    | 1.99 |        |
| Lugoff            |               | .25 | T.  | .08  |     |      | .46  |     |     |    | .01 |     |     | .18 |     |    |    | T.  | .01 |     |     | .10  | .01  | T.   | .18  | .03  | .18  | .08 |     |    | 1.57 |        |
| Newberry          | .23           | .40 | .11 |      |     | 1.16 |      |     | .02 |    |     |     | .19 | .07 |     |    |    |     |     |     | T.  | .20  | T.   | .53  | T.   | .02  | .25  |     |     |    | 3.18 |        |
| Pinopolis         | .48           |     | .25 | .28  |     |      | .91  | .02 |     |    |     |     |     | .15 |     |    |    |     |     |     |     | .12  |      | 1.35 |      | .44  |      |     |     |    | 4.00 |        |
| St. Georges       |               | T.  |     | .55  |     | T.   | .75  |     |     |    |     |     |     |     |     |    |    | .16 |     |     |     | .12  | .10  |      | 1.01 | .15  |      | .75 | .25 |    | 3.84 |        |
| St. Matthews      |               | T.  |     | .75  |     | T.   | .50  |     |     |    |     |     |     | .25 |     |    |    | .25 |     |     |     | .10  | .12  |      | 1.20 | .08  |      | .57 | .50 |    | 4.32 |        |
| St. Stephens      |               | .20 |     | .50  |     |      | 1.08 |     |     |    | .06 |     |     | .34 | .02 |    |    | .09 |     |     |     | .21  | .05  | .55  |      | .40  |      |     |     |    | 3.50 |        |
| Saluda            |               | .14 | .08 | .09  |     | .11  | .77  |     |     |    |     |     |     | .22 |     |    |    | .12 |     |     |     | .24  | .01  | T.   | .19  |      | .38  |     |     |    | 2.35 |        |
| Santuc            |               | .22 | .52 | .03  |     | .09  | .51  |     |     |    | .08 |     |     | .27 |     |    |    |     |     |     |     | .11  |      | .32  | .29  |      | .31  |     |     | T. | 3.03 |        |
| Savannah, Ga.     |               |     | .24 | T.   |     | .53  | .02  |     |     |    | T.  |     |     | .03 |     |    |    | T.  |     |     |     | .25  | .01  | T.   | .53  |      | T.   | T.  |     |    | 1.61 |        |
| Seivern           |               | .05 | .03 | .28  |     | T.   | .54  |     |     |    |     |     |     | .10 |     |    |    | .11 |     |     |     | .23  | .02  |      | 1.14 |      | .73  |     |     |    | 3.23 |        |
| Smiths Mills      |               |     |     | .70  |     |      | 1.35 |     |     |    | .03 |     |     | .39 | .02 |    |    | .11 |     |     |     | T.   |      | .26  | 2.00 |      | .65  |     |     |    | 5.51 |        |
| Society Hill      | .03           | .02 | .07 |      |     | .52  | .18  |     |     |    | .04 | .50 |     |     |     |    |    | .08 |     |     |     | .03  | .30  |      | .70  |      | .10  |     |     |    | 2.60 |        |
| Spartanburg       |               |     |     |      |     | 2.00 |      |     | .05 |    |     |     |     | .35 | T.  |    |    |     |     |     |     | .20  | 1.70 | .60  |      | .10  |      |     |     | T. | 5.00 |        |
| Stateburg         |               | .10 | .27 |      |     | .09  | 1.04 |     |     |    | T.  |     | T.  | .08 |     |    |    | .11 |     |     | .06 | .04  |      | 1.52 |      | .28  | .01  | .20 |     |    | 3.80 |        |
| Summerville       |               | .02 | .50 |      |     | 1.20 |      |     |     |    | .11 |     |     | T.  |     |    |    | .04 |     |     | .04 | .02  | .01  | 1.41 |      | .51  | .06  |     |     |    | 3.92 |        |
| Sumter            |               |     |     |      |     |      |      |     |     |    |     |     |     |     |     |    |    |     |     |     |     |      |      |      |      |      |      |     |     |    |      |        |
| Trenton           |               |     |     |      |     | .83  | 1.10 |     |     |    |     |     |     | .08 |     |    |    | .05 |     |     |     | .28  | .07  |      | .40  |      | .08  |     |     |    | 2.89 |        |
| Trial             | .08           |     | .48 |      |     |      |      |     |     |    | T.  |     | T.  | .04 |     |    |    |     |     |     |     | .20  |      | .70  |      | .78  |      |     |     |    | 2.34 |        |
| Walhalla          | .10           |     |     |      |     | 2.70 |      |     |     |    |     |     |     | .45 |     |    |    |     |     |     |     | 1.15 |      | .75  | .15  | .12  | T.   | .10 |     |    | 5.52 |        |
| Walterboro        |               | .22 |     | .55  |     | .10  | .61  |     |     |    | .08 |     |     | .10 |     |    |    | .07 |     |     |     | .11  | .02  |      | 1.87 | T.   | .35  | .30 |     |    | 5.38 |        |
| Wilmington, N. C. |               | .01 | .19 | .60  |     | T.   | .95  |     |     |    | .15 |     |     | .77 |     |    |    | .36 |     |     |     | .17  | .01  |      | .29  | T.   | .01  | .82 |     |    | T.   | 4.33   |
| Winnsboro         |               | .15 |     |      | .70 | .73  |      |     |     |    |     |     | .50 |     |     |    |    |     |     |     |     |      |      |      |      |      |      |     |     |    | 2.08 |        |
| Winthrop College  |               |     | .32 | .08  |     | T.   | .84  |     |     |    |     | .03 | .22 |     |     |    |    |     |     |     |     | .12  |      | .29  | .39  |      | .17  | .30 |     |    | T.   | 2.76   |
| Yemassee          |               | .05 |     | .51  |     | T.   | .64  |     |     |    | .09 |     |     | .20 | .15 |    |    |     |     |     |     | .05  |      | .64  | T.   |      | 1.13 | T.  |     |    | 3.26 |        |
| Yorkville         |               | .03 | .15 |      |     | .17  | .58  |     |     |    | .10 |     | T.  | .20 |     |    |    |     |     |     |     | .14  |      | .44  | .10  | .16  | .21  |     |     |    | 2.58 |        |

T indicates trace, less than .01 inch.



487.05  
ENSO  
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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BY

J. W. BAUER,

SECTION DIRECTOR.



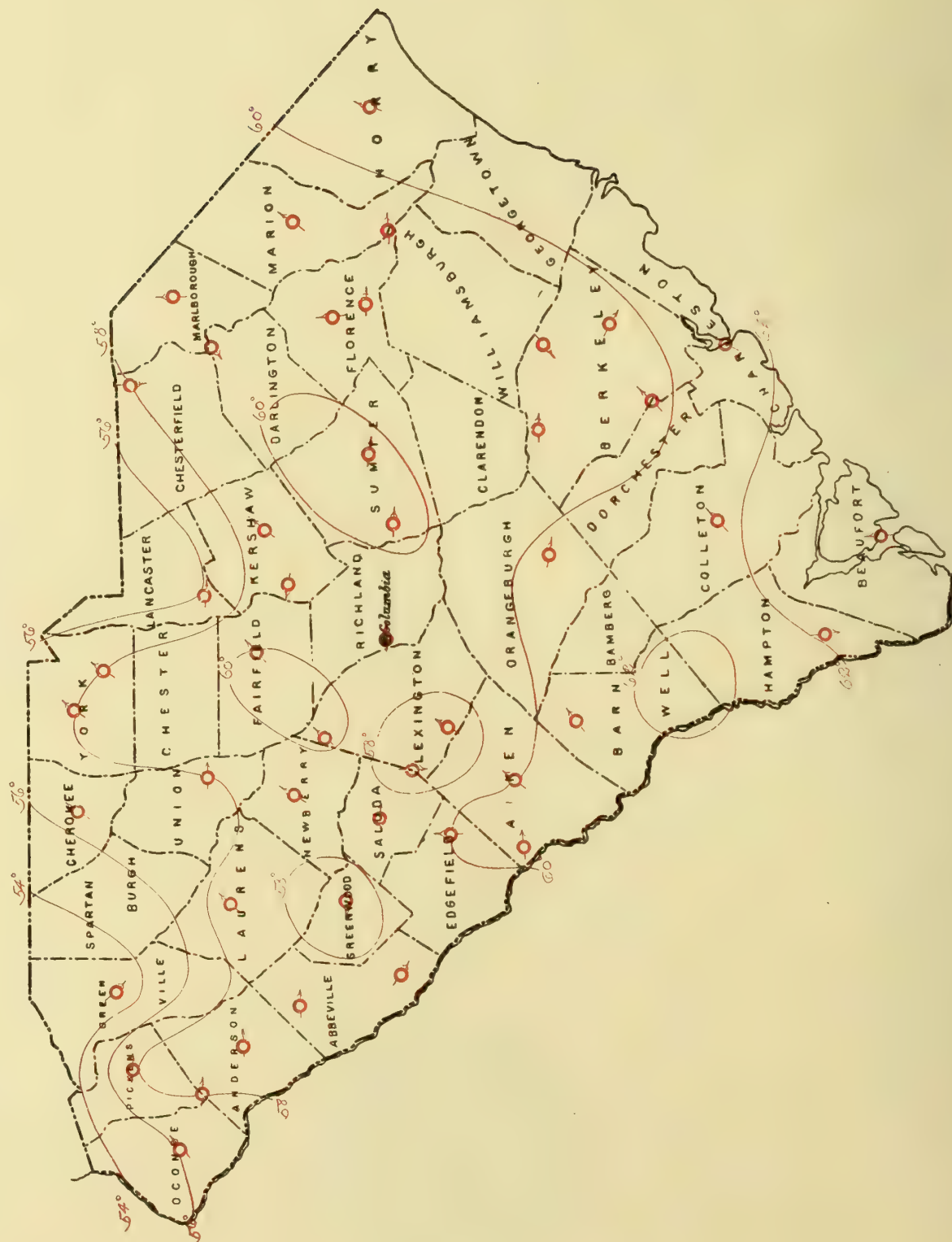
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

MAY 24, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. VII. COLUMBIA, S. C., APRIL, 1904.

No. 4.

## PROGRESS OF FARM WORK.

Persistent low temperature, with frosts on the 4th, 5th, 6th, 14th, 21st and 22nd, kept the soil too cold for the favorable germination of corn and cotton, as well as the large number of minor crops that are planted during April. The precipitation was deficient, and the few rains that fell were soon dried by the prevailing windy weather, so that the soil lacked moisture throughout the month, causing severe drought conditions along the coast and in the north-central counties. Ice was noted on 4th, 5th and 22nd.

Farmwork made rapid progress, and planting operations were unusually well advanced by the close of the month. The weather was unfavorable for the growth of such crops that came up, and was particularly adverse on oats, which headed and bloomed during the month, but, owing to the deficiency in precipitation, the straw is short and the heads are small. Wheat seemed to be favored by the cool weather and maintained a healthy color and stood well, but grew slowly indicating short straw at harvest time. Nearly all the corn came up and the earliest was cultivated, but in color it was yellow. Stands were damaged by cut and bud worms, necessitating considerable replanting. Early cotton came up to irregular stands, and few fields attained full stands during the month. The plants were, as a rule, sickly and grew slowly. Rice, also, failed to make satisfactory growth after it came up. Transplanting tobacco was practically finished. The drought diminished the yields of truck in the coast districts. Peaches were injured by the frost and freeze of the 5th, on low lands, while the commercial orchards escaped serious damage. Apples, cherries, plums and strawberries continued promising throughout the month.

The season is about ten days earlier than usual in regard to general farm work, and about the same number of days late in growth and condition of crops.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for April, 1904, was 59.2°, which is 3.2° below normal. The highest local mean was 63.2° at Beaufort; the lowest 53.1° at Greenville. The

highest maximum was 89° at Gillisonville and Sumter on the 16th, and at Walterboro on the 2nd; the lowest minimum was 21° on the 5th at Spartanburg, making the State range 68°. The greatest local monthly range was 62° at Spartanburg, the least was 45° at Allendale and Charleston. The mean of the daily maximum temperatures was 71.7°, of the daily minima 47.3°, making the average daily range 23.8°.

Frosts.—Frosts occurred on the 4th, 5th, 6th, 14th, 17th, 21st and 22nd. The last killing frost of the month occurred on the 4th at Bowman, Winnsboro; on the 5th at Camden, Cheraw, Clemson College, Conway, Dillon, Due West, Effingham, Florence, Gaffney, Gillisonville, Greenville, Heath Springs, Kingstree, Liberty, Lugoff, Newberry, St. George, St. Matthews, St. Stephens, Smiths Mills, Society Hill, Spartanburg; on the 7th at Yorkville; on the 22nd at Little Mountain, Seivern, and Trial.

## Precipitation, in Inches.

The precipitation averaged 1.34 inches, which is 2.30 below normal. The greatest local amount was 2.45 at Liberty, the least was 0.17 at Charleston. The greatest 24-hour fall was 1.13 inches at Gillisonville on the 26th (in 50 minutes). The average number of days with 0.01, or more, precipitation was 6, ranging from 2 at Allendale to 12 at Saluda.

Snow.—Trace of snow fell at Gaffney, Liberty, Newberry, Saluda, Spartanburg and Walhalla on the 20th.

Sleet.—Batesburg, Bennettsville, Clemson College, Due West, Heath Springs, Liberty, Lugoff, Newberry, Saluda, Walhalla and Winnsboro recorded sleet on the 20th; Cheraw, Spartanburg and Winthrop College on the 21st; Society Hill on the 26th.

Hail.—Bennettsville, Cheraw, Liberty, and Society Hill on the 26th; Columbia, Stateburg, 16th; Gillisonville, 13th.

Weather.—The average number of clear days was 14, of partly cloudy 8, and of cloudy 8.

Winds.—The prevailing direction of the wind was from the southwest at 20 stations, from the west at 15, from the north at 5, from the south at 4, from the northwest at 3, from the east at 2, and from the northeast at 1 station.

High Winds.—Barksdale, 4, 24; Beaufort, 25, 26; Bowman, 10, 11, 19, 25; Charleston, Gillisonville, 16; Clarks Hill, 8, 9; Columbia, 4; Heath Springs, 1, 2, 3, 12, 19; Little Mountain, 11; Lugoff, 10, 14; Summerville, 11, 12, 15, 19, 20, 25, 26.

Barometer and Wind Table for April, 1904.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....     | 30.04      | 30.43    | 4     | 29.74   | †0    | 5,763           | 8.0             | 32                | w.         | 19    |
| Charleston.....       | 30.04      | 30.43    | 5     | 29.71   | 26    | 8,569           | 11.8            | 34                | ne.        | 16    |
| Charlotte, N. C. .... | 30.04      | 30.48    | 4     | 29.66   | 9     | 6,096           | 8.5             | 33                | sw.        | 9     |
| Columbia, S. C. ....  | 30.02      | 30.47    | 4     | 29.71   | 27    | 7,967           | 11.0            | 37                | ne.        | 14    |
| Savannah, Ga. ....    | 30.05      | 30.40    | 4     | 29.73   | 26    | 6,866           | 9.5             | 27                | w.         | 10    |
| Wilmington, N. C. ... | 30.01      | 30.42    | *4    | 29.67   | 9     | 7,082           | 9.8             | 31                | sw.        | 25    |
| Averages.....         | 30.03      | 30.48    | 4     | 29.66   | 9     | 7,060           | 9.8             | 37                | ne.        | 4     |

\* and 26

† and 5



## MISCELLANEOUS PHENOMENA (with dates).

Earthquake.—Slight at Saluda on the 30th.

Luna Coronæ.—At Santuc on the 23rd.

Solar Halos.—Charleston, 6, 12, 20, 22, 24, 25, 26, 30; Santuc, 14, 22; Stateburg, 22, 23.

Lunar Halos.—Blackville, 25; Charleston, 2, 3, 20, 25, 26; Little Mountain, 21, 24, 25; Newberry, 21; Santuc, 21, 24.

Dense Fogs.—Blackville, Heath Springs, Liberty, Seivern, 7; Santuc, 19; Trial, 23.

Thunderstorms.—Aiken, 12; Barksdale, Society Hill, 26; Beaufort, 1, 7, 8, 9, 12, 26; Bowman, 8, 12, 26; Cheraw, 7, 9, 12, 16, 26; Gillisonville, 1, 3, 7, 8, 26; Greenville, 8; Liberty, 8, 15, 26; Little Mountain, 12; Lugoff, Trial, 7, 16; Newberry, 16; Saluda, 1; Stateburg, Summerville, 7, 12, 16, 26; Yorkville, 7, 12, 16, making a total of 44 thunderstorms with 9 days of occurrence, as follows: 3 on the 1st, 1 on the 3rd and 15th, 8 on the 7th and 12th, 5 on the 8th, 2 on the 9th, 7 on the 16th, and 9 on the 26th. Charleston had thunderstorms on the 3, 7, 8, 12, 13, 16, 26th; Columbia on the 7, 16th.

## REMARKS BY OBSERVERS.

Allendale.—Too cold for early vegetables.—C. A. Glover.

Barksdale.—Cold weather retarded germination of seeds, but corn came up to good stands. Grain improved. Soil received thorough preparation before it was planted.—J. T. Garrett.

Batesburg.—Month was favorable for general farmwork, but too dry for crop growth. The frost and ice on the 5th did little damage.—E. J. Hite.

Beaufort.—The mean temperature was  $2.7^{\circ}$  below normal; precipitation 1.37 below. High winds dried the ground rapidly after the few light showers. Truck suffered severely with greatly diminished yields. Very little cotton came up.—S. M. Benton.

Bennettsville.—Corn was cultivated and cultivation of early cotton begun. Hail on 26th did little damage.—Jno. L. McCall.

Bowman.—April was unusually windy and unseasonably cold, with a deficiency in precipitation. Crops are backward. Corn came up to good stands, but cotton is stunted and looks sickly. Wheat and oats became fairly promising.—B. O.

Evans.

Clarks Hill.—The month was remarkably cool, frosty, windy and cloudy, with a deficiency in precipitation. The effect of this weather was slow germination of seed and some damage to fruit.—Wm. S. Middleton.

Darlington.—Heavy frost and some ice on the 5th, but owing to the condition of the atmosphere, only the tenderest vegetation was injured.—Hon. E. R. McIver.

Dillon.—April was cold and dry. Cotton did poorly; tobacco barely lived; corn grew fairly well; oats are small.—A. E. Rowell.

Gillisonville.—Month dry and unpleasant, but favorable for planting operations, with bulk of cotton having been planted; germination slow. Steady low temperature retarded growth, and crops generally have an unhealthy appearance. Corn was cultivated, and some cotton chopped.—Sam P. Saltus.

Liberty.—There were frosts on the 4th, 11th, 13th and 17th. That of the 4th killed garden truck and peaches on lowlands. Planting operations are well advanced. Too cold for cotton to come up. Wheat and oats grew nicely.—Jno. T. Boggs.

Newberry.—“Sundog” on the afternoon of the 24th. Cold and dry month. Farmwork advanced rapidly, but it was too cool for germination of cotton seed.—W. G. Peterson.

Society Hill.—Cotton came up to good stands. Corn and oats became promising. Killing frost on the 5th destroyed most of the peach crop and first crop of figs. Rain on the 26th was very beneficial.—Maj. J. J. Lucas.

Stateburg.—The month was unfavorable to crops, owing to low temperature, much cloudiness and deficiency in precipitation, retarding germination and growth, and necessitating much replanting.—W. W. Anderson, M. D.

Trenton.—Precipitation 3.30 inches below normal, and 10.61 less than the normal for the first four months.—C. A. Long.

Trial.—First whippoorwill heard on the 23rd. It was an unusually windy April.—Etsell Gaillard.



| CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1904. |               |                 |                         |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               |
|---|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|
| STATIONS.   | Counties.     | Elevation—feet. | Length of record—years. | Temperature in degrees Fahrenheit. |                            |          |       |         |       | Precipitation in inches. |        |                            |                       |                            | Sky.               |                    |                            |                     |                               |
|   |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. |
| Aiken.  | Aiken.        | 565             | 3                       | 59.5                               | -3.5                       | 85       | 16    | 32      | 5     | 36                       | 1.15   | -1.71                      | 0.50                  |                            | 5                  | 26                 | 3                          | 1                   | SW.                           |
| Allendale.  | Barnwell.     | 186             | 16                      | 63.1                               | 1.1                        | 86       | 16    | 41      | 18    | 34                       | 0.60   | -1.65                      | 0.40                  |                            | 2                  | 22                 | 0                          | 8                   | W.                            |
| Anderson.   | Anderson.     | 794             | 3                       | 59.8                               | -0.3                       | 83       | 25    | 32      | 4     | 38                       | 1.95   | -1.51                      | 0.53                  |                            | 7                  | 18                 | 9                          | 3                   | W.                            |
| Augusta, Ga.                                      | Richmond.     | 134             | 33                      | 59.7                               | -4.5                       | 84       | 15    | 34      | 5     | 38                       | 1.16   | -2.18                      | 0.27                  |                            | 9                  | 12                 | 13                         | 5                   | W.                            |
| Barksdale.  | Laurens.      | 780             | 3                       | 58.3                               |                            | 83       | 1     | 32      | 4     | 10                       | 1.74   |                            | 0.75                  |                            | 6                  | 13                 | 14                         | 3                   | SW.                           |
| Batesburg.  | Lexington.    | 656             | 16                      | 57.4                               | 5.1                        | 87       | 19    | 32      | 5     | 44                       | 2.13   | -0.62                      | 0.95                  |                            | 6                  | 15                 | 8                          | 2                   | W.                            |
| Beaufort.   | Beaufort.     | 28              | 18                      | 63.2                               | -2.7                       | 86       | 16    | 40      | 4     | 33                       | 0.83   | -1.37                      | 0.27                  |                            | 8                  | 12                 | 10                         | 8                   | S.                            |
| Bennettsville.                                    | Marlboro.     |                 | 3                       | 60.3                               |                            | 85       | 25    | 30      | 5     | 38                       | 2.12   |                            | 0.67                  |                            | 8                  | 20                 | 7                          | 3                   | SW.                           |
| Blackville.                                       | Barnwell.     | 296             | 16                      | 61.0                               | 3.1                        | 86       | *1    | 33      | 5     | 42                       | 0.63   | -2.97                      | 0.16                  |                            | 5                  | 12                 | 16                         | 2                   | W.                            |
| Bowman.   | Orangeburg.   | 160             | 3                       | 61.2                               |                            | 87       | 16    | 32      | 5     | 42                       | 1.48   |                            | 0.38                  |                            | 6                  | 14                 | 12                         | 4                   | W.                            |
| Calhoun Falls.                                    | Abbeville.    | 508             | 11                      |                                    |                            |          |       |         |       |                          | 1.44   | -2.67                      | 0.38                  |                            | 5                  | 22                 | 0                          | 8                   | NW.                           |
| Canden.   |               | 222             | 38                      |                                    |                            |          |       |         |       |                          | 1.41   | -1.86                      | 0.61                  |                            | 4                  | 17                 | 6                          | 7                   | W.                            |
| Charleston.                                       | Charleston.   | 48              | 35                      | 61.9                               | -2.7                       | 87       | 16    | 42      | 4     | 36                       | 0.17   | -3.41                      | 0.06                  |                            | 3                  | 10                 | 15                         | 5                   | SW.                           |
| Charlotte, N. C.                                  | Mecklenburg.  | 808             | 26                      | 55.6                               | -4.1                       | 86       | 25    | 32      | 4     | 32                       | 0.89   | -2.65                      | 0.35                  |                            | 10                 | 8                  | 9                          | 13                  | SW.                           |
| Choraw (1).                                       | Chesterfield. | 144             | 16                      | 58.0                               | -3.6                       | 84       | 25    | 30      | 5     | 38                       | 1.41   | -1.86                      | 0.46                  |                            | 7                  | 10                 | 10                         | 10                  | W.                            |
| Choraw (2).                                       |               | 144             | 11                      |                                    |                            |          |       |         |       |                          | 2.12   | -1.73                      | 0.76                  |                            | 7                  | 16                 | 7                          | 7                   | W.                            |
| Clarks Hill.                                      | Edgefield.    | 456             | 2                       | 59.2                               |                            | 82       | *1    | 35      | 4     | 40                       | 1.20   |                            | 0.61                  |                            | 6                  | 5                  | 7                          | 13                  |                               |
| Clemson College.                                  | Oconee.       | 850             | 13                      | 57.6                               | -1.6                       | 84       | *1    | 26      | 5     | 46                       | 1.61   | -2.29                      | 0.53                  |                            | 6                  | 16                 | 9                          | 4                   | W.                            |
| Columbia.   | Richland.     | 351             | 17                      | 59.0                               | -4.6                       | 82       | 15    | 34      | 4     | 37                       | 1.23   | -1.55                      | 0.373                 |                            | 9                  | 8                  | 15                         | 7                   | SW.                           |
| Conway.   | Horry.        | 25              | 13                      | 60.2                               |                            | 86       | 16    | 31      | 5     | 37                       | 1.05   | 1.79                       | 0.60                  |                            | 3                  | 21                 | 4                          | 5                   | SW.                           |
| *Darlington.                                      | Darlington.   | 175             | 9                       | 60.0                               |                            | 85       | *1    | 29      | 5     | 42                       | 1.37   | -2.97                      | 0.53                  |                            | 8                  | 16                 | 8                          | 6                   | SW.                           |
| Dillon.   | Marion.       | 100             | 0                       | 59.8                               |                            | 85       | *1    | 28      | 5     | 41                       | 1.02   |                            | 0.45                  |                            | 10                 |                    |                            |                     | W.                            |
| Due West.   | Abbeville.    | 740             | 3                       | 59.9                               |                            | 85       | *25   | 32      | 4     | 39                       | 1.80   |                            | 0.47                  |                            | 7                  | 14                 | 8                          | 8                   | W.                            |
| Edisto.   | Bamberg.      | 127             | 11                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     | J. L. Padgett.                |
| Effingham.  | Florence.     | 106             | 12                      |                                    |                            |          |       |         |       |                          | 1.50   | -1.48                      | 0.50                  |                            | 4                  | 17                 | 8                          | 5                   | W.                            |
| Florence.   | Florence.     | 136             | 16                      | 60.0                               | -2.0                       | 85       | *1    | 29      | 5     | 41                       | 1.37   | -1.94                      | 0.78                  |                            | 6                  | 17                 | 3                          | 10                  | W.                            |
| Gaffney.  | Cherokee.     | 893             | 8                       | 56.4                               |                            | 85       | 25    | 28      | 5     | 45                       | 1.66   | -4.19                      | 1.52                  | T.                         | 8                  |                    |                            |                     | SW.                           |
| Georgetown.                                       | Georgetown.   | 12              | 11                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     | W. T. Turbeville.             |
| Gillisonville.                                    | Hampton.      | 50              | 9                       | 61.9                               | -2.5                       | 89       | 16    | 32      | 5     | 42                       | 1.77   | -1.68                      | 1.13                  |                            | 4                  | 16                 | 6                          | 8                   | W.                            |
| Greenville.                                       | Greenville.   | 989             | 12                      | 53.1                               | -4.6                       | 80       | 1     | 25      | 5     | 40                       | 2.29   | -2.12                      | 0.63                  |                            | 8                  | 12                 | 6                          | 12                  | NW.                           |
| Greenwood +.                                      | Greenwood.    | 671             | 16                      | 56.6                               | -4.5                       | 82       | 25    | 34      | 4     | 38                       | 1.64   | -2.27                      | 0.71                  |                            | 7                  | 13                 | 1                          | 16                  | W.                            |
| Heath Springs.                                    | Lancaster.    |                 | 3                       | 54.8                               |                            | 84       | 26    | 25      | 5     | 30                       | 1.02   |                            | 0.26                  |                            | 8                  | 8                  | 10                         | 12                  | W.                            |
| Kingstree (1).                                    | Williamsburg. | 54              | 16                      | 58.6                               | -4.3                       | 84       | 16    | 34      | 5     | 37                       | 0.75   | -1.94                      | 0.30                  |                            | 4                  | 18                 | 6                          | 6                   |                               |
| Kingstree (2).                                    |               | 54              | 10                      |                                    |                            |          |       |         |       |                          | 0.76   | -2.44                      | 0.29                  |                            | 4                  | 18                 | 5                          | 7                   |                               |
| Liberty.  | Pickens.      | 900             | 10                      | 57.9                               | -2.1                       | 84       | 25    | 28      | 5     | 40                       | 2.45   | -1.87                      | 1.10                  | T.                         | 6                  | 11                 | 10                         | 9                   | W.                            |
| Little Mountain.                                  | Newberry.     | 711             | 11                      | 60.0                               | -2.2                       | 84       | *1    | 33      | 4     | 40                       | 1.36   | -3.07                      | 0.41                  |                            | 7                  | 2                  | 20                         | 8                   | SW.                           |
| Langlo.   | Kershaw.      | 168             | 3                       | 59.6                               |                            | 86       | 1     | 26      | 5     | 44                       | 1.30   |                            | 0.53                  |                            | 9                  | 15                 | 6                          | 9                   | SW.                           |
| Newberry.   | Newberry.     | 502             | 0                       | 58.6                               | -2.8                       | 83       | 25    | 28      | 5     | 40                       | 1.16   | -3.26                      | 0.58                  | T.                         | 7                  | 7                  | 13                         | 10                  | SW.                           |
| *Pinopolis.                                       | Berkeley.     | 54              | 11                      | 59.1                               | -2.9                       | 83       | 16    | 37      | 5     | 30                       | 1.01   | -2.50                      | 0.60                  |                            | 4                  | 15                 | 9                          | 6                   | NW.                           |
| St. Georges.                                      | Dorchester.   | 109             | 16                      | 60.0                               | -3.6                       | 85       | 16    | 37      | 4     | 39                       | 1.02   | -2.18                      | 0.35                  |                            | 6                  | 18                 | 5                          | 7                   |                               |
| St. Matthews.                                     | Orangeburg.   | 269             | 16                      | 58.9                               | -5.1                       | 83       | 1     | 33      | 5     | 32                       | 1.14   | -2.48                      | 0.57                  |                            | 5                  | 17                 | 4                          | 9                   |                               |
| St. Stephens.                                     | Berkeley.     | 73              | 12                      |                                    |                            |          |       |         |       |                          | 2.21   | -0.57                      | 0.99                  |                            | 5                  | 14                 | 3                          | 13                  | N.                            |
| Saluda.   | Saluda.       | 536             | 3                       | 58.8                               |                            | 85       | 15    | 27      | 5     | 43                       | 1.77   |                            | 0.46                  | T.                         | 12                 | 17                 | 6                          | 7                   | W.                            |
| Santuc.   | Union.        | 512             | 11                      | 57.2                               | -2.7                       | 84       | *1    | 25      | 5     | 46                       | 0.98   | -3.02                      | 0.35                  |                            | 8                  | 8                  | 16                         | 6                   | W.                            |
| Savannah, Ga.                                     | Chatham.      | 71              | 35                      | 63.2                               | -2.9                       | 87       | 16    | 43      | 4     | 33                       | 0.35   | -3.12                      | 0.32                  |                            | 3                  | 13                 | 12                         | 5                   | SW.                           |
| Seivern.  | Aiken.        | 482             | 3                       | 58.1                               | -6.0                       | 86       | 15    | 27      | 5     | 46                       | 0.83   | -3.52                      | 0.34                  |                            | 8                  | 10                 | 11                         | 9                   | SW.                           |
| Smiths Mills.                                     | Williamsburg. | 62              | 9                       |                                    |                            |          |       |         |       |                          | 1.14   | -2.88                      | 0.42                  |                            | 4                  | 16                 | 4                          | 10                  | W.                            |
| Society Hill.                                     | Darlington.   | 192             | 13                      | 58.8                               | -3.5                       | 82       | *1    | 31      | 4     | 33                       | 2.13   | -2.10                      | 1.04                  |                            | 7                  | 9                  | 11                         | 10                  | Ne.                           |
| Spartanburg.                                      | Spartanburg.  | 875             | 13                      | 55.6                               | -4.8                       | 83       | 25    | 21      | 5     | 46                       | 1.52   | -2.64                      | 0.40                  | T.                         | 7                  | 12                 | 4                          | 14                  |                               |
| Stateburg.  | Sumter.       | 500             | 27                      | 60.6                               | -2.2                       | 85       | 1     | 35      | 4     | 33                       | 1.44   | -1.65                      | 0.51                  |                            | 7                  | 8                  | 10                         | 12                  | W.                            |
| Summerville.                                      | Dorchester.   | 75              | 7                       | 59.9                               | -2.7                       | 87       | 16    | 33      | 4     | 42                       | 0.87   | -4.18                      | 0.36                  |                            | 5                  | 19                 | 2                          | 9                   | SW.                           |
| Sumter.   | Sumter.       | 169             | 3                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    | 8                  | 2                          | 7                   | W.                            |
| + Trenton.  | Edgefield.    | 620             | 11                      | 60.1                               | -4.6                       | 84       | 16    | 37      | 17    | 36                       | 0.83   | -3.30                      | 0.20                  |                            | 6                  | 8                  | 15                         | 3                   | S.                            |
| † Trial.  | Berkeley.     | 85              | 18                      | 59.8                               | -2.1                       | 85       | 16    | 29      | 5     | 42                       | 0.90   | -1.67                      | 0.47                  |                            | 5                  | 8                  | 12                         | 10                  | W.                            |
| Walhalla.   | Oconee.       | 1061            | 13                      | 55.4                               | -4.1                       | 80       | *1    | 25      | 4     | 40                       | 1.70   | -4.00                      | 0.75                  | T.                         | 7                  | 13                 | 8                          | 9                   | SW.                           |
| Walterboro.                                       | Colleton.     |                 | 1                       | 60.8                               |                            | 89       | 2     | 33      | 5     | 42                       | 0.94   |                            | 0.37                  |                            | 5                  | 14                 | 10                         | 6                   | SW.                           |
| Wilmington, N. C.                                 | New Hanover.  | 52              | 35                      | 59.3                               | -2.2                       | 80       | 2     | 36      | 4     | 34                       | 1.44   | -1.52                      | 0.43                  |                            | 12                 | 10                 | 13                         | 7                   | SW.                           |
| Winnboro.   | Fairfield.    | 545             | 15                      | 60.6                               | -0.6                       | 84       | 25    | 35      | 3     | 31                       | 2.05   | -0.88                      | 0.87                  |                            | 4                  | 17                 | 9                          | 4                   | SW.                           |
| Winthrop College.                                 | York.         | 690             | 5                       | 57.5                               | -3.9                       | 83       | 25    | 30      | 5     | 35                       | 1.04   | -2.32                      | 0.30                  |                            | 6                  | 12                 | 13                         | 5                   | SW.                           |
| Yemassee.   | Beaufort.     | 23              | 9                       | 61.5                               | -2.5                       | 88       | 16    | 36      | 5     | 40                       | 0.93   | -2.14                      | 0.40                  |                            | 6                  | 21                 | 1                          | 8                   |                               |
| † Yorkville.                                      | York.         | 680             | 16                      | 58.4                               | -3.2                       | 86       | 25    | 32      | *4    | 38                       | 1.31   | -2.47                      | 0.67                  |                            | 7                  | 5                  | 13                         | 12                  | SW.                           |
| MEANS—highest, lowest and dates, etc.             |               |                 |                         | 59.2                               | -3.2                       | 89       | *2    | 21      | 5     | 46                       | 1.34   | -2.30                      | 1.13                  | T.                         | 6                  | 14                 | 8                          | 8                   | SW.                           |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.



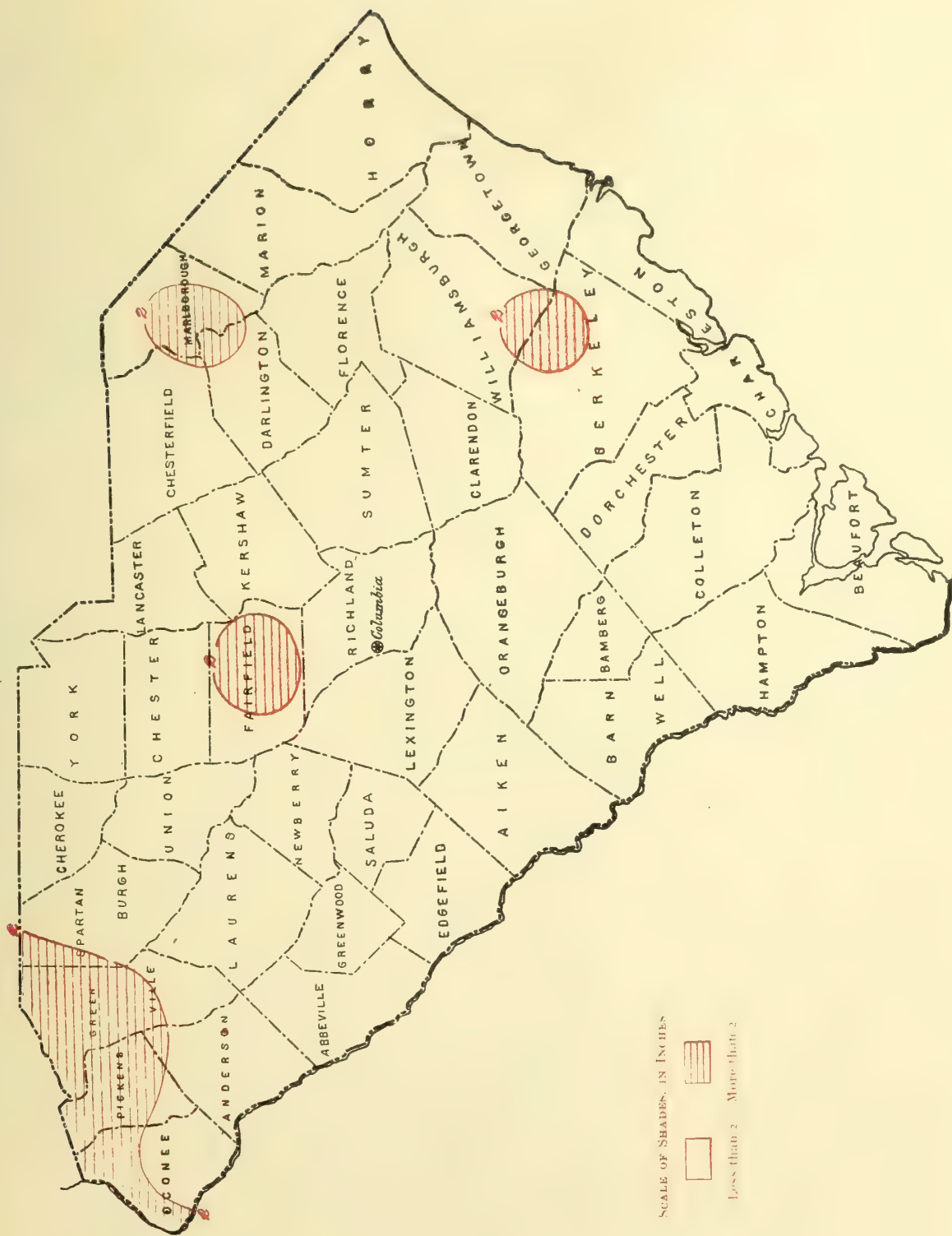
STATIONS.

| Stations. |      |      | Months. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Monthly mean. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   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|           |      |      | 1       | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   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a indicates 1 day missing, b 2 days, etc.



# TOTAL PRECIPITATION FOR APRIL, 1904.



SCALE OF SHADES, IN INCHES



Less than 2    Between 2 and 3    More than 3



[illegible]

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



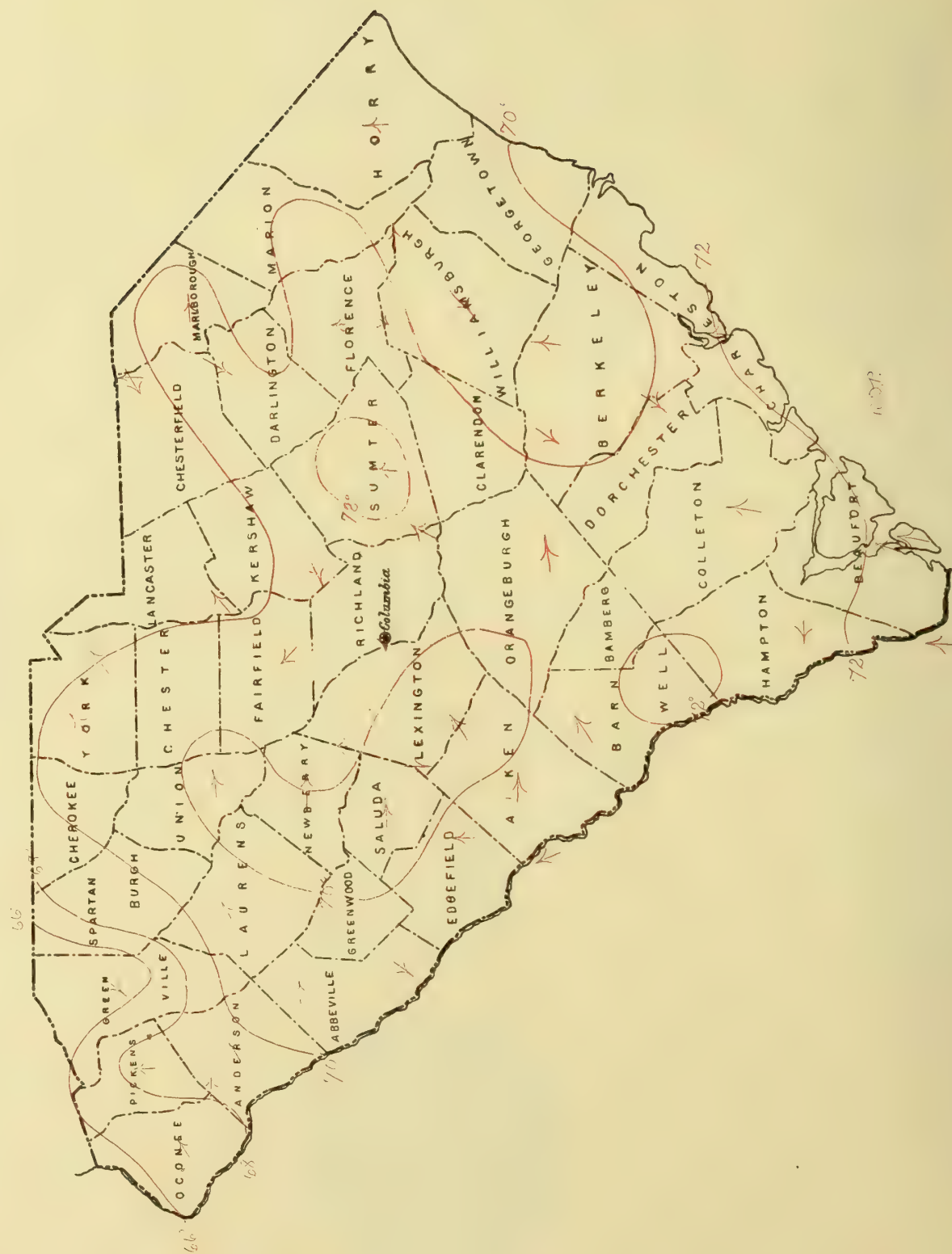
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

JUNE 24, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MAY, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,

COLUMBIA, S. C.

VOL. VII.

COLUMBIA, S. C., MAY, 1904.

No. 5.

## PROGRESS OF FARM WORK.

The temperature conditions during May, 1904, were noteworthy in this, that the average of the daily maximum, or day temperatures was slightly above the normal, while the average minimum, or night temperature was greatly below normal. The result was an unusually wide daily range in temperature, and the effects on the progress of farm work and on the condition of crops were to retard germination of seeds and check growth of plants. These effects were most noticeable on corn, cotton, tobacco and rice, among the staple crops, all of which were small for the season even to the close of the month. The cool weather seemed to have a favorable effect on wheat and oats, and on fruits, particularly on peaches and apples. There were light frosts on the 15th, 16th and 18th, in a few of the western counties, that did no damage.

Following the scant rainfall of April, the deficiency in precipitation during May resulted in drought conditions over practically the entire State, most severe along the coast and in the central North Carolina border counties. There were frequent showers at most stations, but the amounts of precipitation were so small that what fell dried quickly and did little good. Copious showers occurred during the last three days over the greater portion of the State, that partially relieved the drought. The dry weather was partly the cause of slow germination of late planted cotton and corn, and consequently poor broken and irregular stands on certain soils.

The light rainfall was favorable for thorough cultivation of field crops, and for finishing planting operations.

The growth and development of early planted corn was fairly good, and its condition improved steadily, except that worms continued to destroy stands on low lands. Cultivation was uninterrupted. Some corn began to silk and tassel and was laid by. Corn that was planted late in April and early in May germinated poorly and grew slowly.

Cotton planting was practically finished by the middle of the month, and replanting by the 25th. Germination of late planted and replanted cotton was unsatisfactory on clay and red lands, but on sandy lands it came up to full stands. The plants were small for the season, but after the middle of the

month they became healthy and vigorous. The fields were well cultivated and were free from grass and weeds.

Tobacco suffered somewhat from the drought and cool nights that retarded growth. The same is true of rice. Wheat improved steadily and became promising, and began to ripen during the last decade. The condition of the oat crop was variously affected by the weather, but generally the deficiency in moisture was harmful. Earliest oats ripened during the last decade, and harvesting operations were begun in the southernmost counties. The drought reduced the yields of truck in the coast districts, especially that of white potatoes. Melons are later than usual. The dry and cool weather seemed to favor the development of fruits, especially peaches, which began to ripen after the middle of the month. The quality of the early peaches was excellent, but they were slightly undersized. Apples, cherries and pears continued promising in most places. Pastures and gardens suffered severely from the drought.

Streams and wells became very low during the month; the average depth of the Congaree river at Columbia was 0.9 feet below zero of the gage, which is the lowest stage of the water on record. Other streams were similarly affected.

Barometer and Wind Table for May, 1904.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 29.98      | 30.22    | 4     | 29.52   | 17    | 5.024           | 6.8             | 40                | w.         | 30    |
| Charleston, S. C. .... | 29.99      | 30.12    | 12    | 29.75   | 18    | 8.003           | 10.8            | 37                | ne.        | 4     |
| Charlotte, N. C. ....  | 30.00      | 30.29    | 4     | 29.72   | 17    | 5.040           | 6.8             | 30                | s.         | 30    |
| Columbia, S. C. ....   | 29.98      | 30.24    | 4     | 29.71   | 18    | 7.376           | 9.9             | 36                | w.         | 30    |
| Savannah, Ga. ....     | 29.99      | 30.20    | 12    | 29.75   | 17    | 5.886           | 7.9             | 25                | sw.        | 31    |
| Wilmington, N. C. .... | 29.98      | 30.20    | 4     | 29.71   | 18    | 5.755           | 7.7             | 30                | w.         | 18    |
| Averages .....         | 29.99      | 30.29    | 4     | 29.52   | 17    | 6.181           | 8.3             | 40                | w.         | 30    |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for May, 1904, was 70.6°, which is 1.4° below normal. The highest local mean was 73.8° at Bennettsville; the lowest 65.0° at Greenville. The highest maximum was 99° at Gaffney on the 25th; the lowest temperature was 38° at Liberty on the 17th, making the State range 61°. The greatest local monthly range was 58° at Clemson College, Liberty and Winnsboro, the least was 38 at Beaufort. The mean of the daily maximum temperatures was 83.7°, of the daily minimum temperatures 57.4°, making the average daily range 26.3°. (This is about 6° higher than the average daily range for May.)

Frosts.—Light frosts were reported from Newberry on the 11th and 16th; from Union county on the 15th and 16th; and from Greenville county on the 18th.

## Precipitation, in Inches.

The precipitation averaged 2.04 inches, which is 1.34 below normal. The greatest local amount was 4.67 at Walhalla, the least was 0.32 at Sumter. The greatest 24-hour fall was



2.25 inches at Walhalla on the 30th. The average number of days with 0.01, or more, precipitation was 7, ranging from 1 at Allendale and Bennettsville to 11 at Newberry and Stateburg.

Hail.—Hail occurred at Barksdale on the 3rd, at Heath Springs and Saluda on the 31st, and at Liberty on the 2nd. Climate and Crop Correspondents reported damaging hail on the 31st, at a number of places in the northeastern counties.

Weather.—The average number of clear days was 18, of partly cloudy ones 8, and of cloudy ones 5.

Winds.—The prevailing direction of the wind was from the south at 12 stations, from the northeast and southwest at 10 each, from the west at 9, from the east at 3, from the southeast at 2, and from the north at 1 station.

High Winds.—High winds occurred at Charleston on the 4th, Clarks Hill on the 18th, at Columbia on the 30th, at Liberty on the 9, 10, 17, 18, 19th, at Little Mountain, Yorkville, 21st, and at Trial on the 10th.

#### MISCELLANEOUS PHENOMENA (with dates).

Parhelia (Sundogs).—Liberty, 9; Seivern, 8.

Lunar Halos.—Charleston, 30; Lugoff, 29.

Luna Coronæ.—Santuc 4, 9, 24, 31.

Solar Halos.—Charleston, 8, 9, 13, 14, 16, 17, 18, 27, 29, 30, 31; Liberty, 5, 6; Santuc, 16.

Fogs, Dense.—Bowman, 7; Cheraw, 5; Liberty, 9; Yorkville, 18.

Thunderstorms.—Barksdale, 2, 3; Batesburg, 30, 31; Beaufort, 2, 14, 18, 28, 30, 31; Blackville, 14, 17, 27, 29, 30, 31; Bowman, 2, 9, 17, 18, 27, 31; Cheraw, 9; Clarks Hill, 1, 9, 31; Darlington, 2, 7, 31; Dillon, 14, 31; Due West, Walhalla, 29, 30, 31; Gillisonville, 2, 3, 7, 14, 31; Greenville, Santuc, 30; Heath Springs, 31; Liberty, 2, 7, 14, 29, 30, 31; Little Mountain, 14, 29, 30; Lugoff, 9, 10, 27, 31; Newberry, 14, 29, 30, 31; Seivern, 8, 9, 10, 15, 19, 30, 31; Society Hill, 9, 31; Stateburg, 2, 7, 9, 10, 14, 17, 18, 19, 21; Summerville, 2, 30, 31; Trenton, 9, 29, 30, 31; Trial, 14, 31; Walterboro, 14; Winthrop College, 8, 14, 15, 17, 29, 30; Yorkville, 14, 30.

There was a total of 97 thunderstorms reported, on 17 dates of occurrence, as follows: 1 on the 1st, 8 on the 2nd, 2 on 3rd, 4 on the 7th, 2 on the 8th, 8 on the 9th, 3 on the 10th, 11 on the 14th, 2 on the 15th, 4 on the 17th, 3 on the 18th, 2 on the 19th, 3 on the 27th, 1 on the 28th, 8 on the 29th, 15 on the 30th, and 20 on the 31st.

In addition to the above, Charleston reported thunderstorms on the 2, 14, 15, 18, 28, 29, 31; Columbia on the 8, 10, 14, 18, 27, 29, 31.

#### REMARKS BY OBSERVERS.

Allendale.—The entire rainfall for the month occurred on the 30th, and crops suffered for want of moisture.—C. A. Glover.

Barksdale.—Crops are in fine condition at the close of the

month.—J. T. Garrett.

Batesburg.—All crops look fine, and prospects are better than for several years. Fruit shipments are heavy.—E. J. Hite.

Beaufort.—The mean temperature was 2.1° below normal; the deficiency in precipitation was 2.01 inches, and the accumulated deficiency for the season is 5.13 inches. This has been the driest May as well as the driest spring since official records have been kept.—S. M. Benton.

Bennettsville.—Cotton and corn suffered for want of rain, until the 31st.—Jno. L. McCall.

Bowman.—Weather unusually favorable. Cotton was all chopped, and corn begun to be laid by. Rainfall insufficient for gardens. Ripe peaches were noted on the 20th. Grain harvest was begun. The oats crop is a good one.—B. O. Evans.

Dillon.—The month had many clear to partly cloudy days, but was cool and dry. Corn did well and by the close of the month cotton and tobacco were doing well.—A. E. Rowell.

Gillisonville.—The diurnal temperature changes were unusually great, the nights too cool and the days were warm, conditions unfavorable for germination and growth. Fields were well cultivated and are clean. The yield of oats varies greatly in different localities.—Sam P. Saltus.

Heath Springs.—Drought prevailed until the 31st when it was broken by copious rainfall. Crops are well cultivated. Small grain harvest begun, and stubble lands being planted to peas.—J. A. Weaner.

Liberty.—Clear, dry and unusually windy May. It was easy to keep field crops clean. Wheat and oats are promising, and began to ripen by the month's close. The fruit crop will be fair.—Jno. T. Boggs.

Lugoff.—The month was dry, but corn and cotton did fairly well. Oats began to ripen and is a poor crop. Cotton chopping was nearly finished.—W. J. Burdell, M. D.

Newberry.—The month was cool and dry. Farm work made rapid progress. Cotton and corn are small but healthy. Cotton has poor stands on red lands.—W. G. Peterson.

Santuc.—The month was very dry, cool and windy, and crops are poor. Seeds germinated poorly, and stands are irregular. Pastures were badly burned.—E. W. Jeter.

Society Hill.—Cotton came up to good stands, although the plants are small owing to the cool weather. Corn and oats promise well. The outlook for peaches and melons is very poor.—Maj. J. J. Lucas.



CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1904.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit |                            |          |       |         |       | Precipitation—in inches |        |                            |                       | Sky                   |                    |                    |                            | Observers. |                       |                               |
|---------------------------------------|---------------|-----------------|-------------------------|-----------------------------------|----------------------------|----------|-------|---------|-------|-------------------------|--------|----------------------------|-----------------------|-----------------------|--------------------|--------------------|----------------------------|------------|-----------------------|-------------------------------|
|                                       |               |                 |                         | Mean.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.   | Total. | Departure from the normal. | Greatest in 24 hours. | Total, snow included. | Number rainy days. | Number clear days. | Number partly cloudy days. |            | Number overcast days. | Prevailing direction of wind. |
| Aiken.                                | Aiken.        | 565             | 3                       | 71.4                              | —0.7                       | 98       | 24    | 47      | 15    | 48                      | 1.65   | —2.18                      | 0.50                  | .....                 | 5                  | 22                 | 5                          | 1          | w.                    | Dr. C. F. McGahan.            |
| Allendale.                            | Barnwell.     | 186             | 16                      | 72.7                              | +0.1                       | 91       | 27    | 51      | 1     | 39                      | 0.60   | —3.07                      | 0.60                  | .....                 | 1                  | 25                 | 0                          | 6          | .....                 | C. A. Glover.                 |
| Anderson.                             | Anderson.     | 704             | 3                       | 70.2                              | +0.9                       | 96       | 24    | 45      | 14    | 35                      | 1.57   | —1.87                      | 0.80                  | .....                 | 5                  | 24                 | 7                          | 0          | sw.                   | R. B. Dean.                   |
| Augusta, Ga.                          | Richmond.     | 134             | 33                      | 71.2                              | —0.8                       | 93       | 24    | 50      | 12    | 33                      | 0.99   | —2.46                      | 0.48                  | .....                 | 7                  | 19                 | 8                          | 1          | se.                   | Weather Bureau.               |
| Barksdale.                            | Laurens.      | 780             | 3                       | 71.7                              | .....                      | 98       | 24    | 47      | 15    | 33                      | 3.86   | .....                      | 1.21                  | .....                 | 9                  | 22                 | 8                          | 1          | h.                    | J. T. Garrett.                |
| Batesburg.                            | Lexington.    | 656             | 16                      | 69.6                              | —2.1                       | 91       | 27    | 48      | 15    | 33                      | 2.88   | —0.78                      | 1.03                  | .....                 | 7                  | 22                 | 2                          | 1          | h.                    | E. J. Hite.                   |
| Beaufort.                             | Beaufort.     | 28              | 18                      | 72.0                              | —2.1                       | 91       | 27    | 53      | 16    | 30                      | 0.42   | —2.01                      | 0.14                  | .....                 | 5                  | 18                 | 12                         | 1          | se.                   | S. M. Benton.                 |
| Bennettsville.                        | Marlboro.     | .....           | 3                       | 73.8                              | .....                      | 94       | 24    | 50      | *11   | 35                      | 0.10   | .....                      | 0.40                  | .....                 | 1                  | 28                 | 2                          | 1          | w.                    | Jno. L. McCall.               |
| Blackville.                           | Barnwell.     | 296             | 16                      | 71.7                              | —1.5                       | 97       | 24    | 47      | 16    | 35                      | 1.86   | —1.95                      | 0.55                  | .....                 | 8                  | 17                 | 14                         | 0          | sw.                   | G. D. C. Lange.               |
| Bowman.                               | Orangeburg.   | 160             | 3                       | 70.8                              | .....                      | 96       | 27    | 45      | 16    | 43                      | 2.50   | .....                      | 0.80                  | .....                 | 9                  | 19                 | 10                         | 2          | w.                    | B. O. Evans.                  |
| Calhoun Falls.                        | Abbeville.    | 508             | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 3.30   | —0.08                      | 1.15                  | .....                 | 4                  | 27                 | 0                          | 4          | ne.                   | P. J. Pfeiffer.               |
| Camden.                               | Kershaw.      | 222             | 38                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.46   | —1.79                      | 0.98                  | .....                 | 5                  | 17                 | 8                          | 6          | e.                    | J. C. Whitaker.               |
| Charleston.                           | Charleston.   | 48              | 35                      | 72.2                              | —0.2                       | 90       | 27    | 59      | 16    | 25                      | 1.46   | —2.56                      | 0.59                  | .....                 | 6                  | 12                 | 15                         | 4          | se.                   | Weather Bureau.               |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 26                      | 68.8                              | +0.4                       | 92       | 24    | 49      | 15    | 31                      | 2.15   | —2.19                      | 0.92                  | .....                 | 10                 | 16                 | 7                          | 8          | ne.                   | Weather Bureau.               |
| Cheraw (1).                           | Chesterfield. | 144             | 16                      | 69.0                              | —2.1                       | 92       | 24    | 47      | 16    | 34                      | 1.70   | —2.23                      | 0.41                  | .....                 | 9                  | 15                 | 8                          | 8          | se.                   | W. R. Godfrey.                |
| Cheraw (2).                           | .....         | 144             | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.87   | —2.23                      | 0.36                  | .....                 | 10                 | 17                 | 7                          | 7          | ne.                   | Jno. H. Powe.                 |
| Clarks Hill.                          | Edgefield.    | 456             | 2                       | 70.8                              | .....                      | 97       | 24    | 48      | 15    | 36                      | 2.46   | .....                      | 0.97                  | .....                 | 7                  | 14                 | 6                          | 11         | .....                 | Wm. S. Middleton.             |
| Clemson College.                      | Oconee.       | 850             | 13                      | 67.2                              | —3.1                       | 97       | 24    | 39      | 1     | 48                      | 2.08   | —1.13                      | 0.85                  | .....                 | 9                  | 14                 | 10                         | 7          | w.                    | Prof. C. C. Newman.           |
| Columbia.                             | Richland.     | 351             | 17                      | 71.4                              | —0.9                       | 93       | 24    | 52      | 15    | 29                      | 1.00   | —2.86                      | 0.30                  | .....                 | 8                  | 15                 | 12                         | 4          | e.                    | Central Office.               |
| Conway.                               | Horry.        | 25              | 13                      | 68.8                              | .....                      | 93       | 27    | 45      | 16    | 36                      | 2.40   | .....                      | 1.06                  | .....                 | 7                  | 26                 | 1                          | 4          | s.                    | McQ. Quattlebaum.             |
| +Darlington.                          | Darlington.   | 175             | 9                       | 69.9                              | .....                      | 95       | 27    | 45      | 16    | 39                      | 4.36   | +1.70                      | 1.71                  | .....                 | 8                  | 16                 | 10                         | 5          | .....                 | E. R. McIver.                 |
| Dillon.                               | Marion.       | 100             | 0                       | 70.6                              | .....                      | 95       | 27    | 43      | 12    | 42                      | 1.69   | .....                      | 0.48                  | .....                 | 8                  | .....              | .....                      | .....      | .....                 | A. E. Rowell.                 |
| Due West.                             | Abbeville.    | 740             | 3                       | 70.8                              | .....                      | 92       | 25    | 45      | 1     | 42                      | 3.20   | .....                      | 1.18                  | .....                 | 7                  | 21                 | 4                          | 6          | w.                    | Rev. O. Y. Bonner.            |
| Edisto.                               | Bamberg.      | 127             | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....                 | .....                 | .....              | .....              | .....                      | .....      | J. L. Padgett.        |                               |
| Edlington.                            | Florence.     | 106             | 12                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.27   | —2.24                      | 0.40                  | .....                 | 5                  | 18                 | 6                          | 7          | ne.                   | H. B. McCall.                 |
| Florence.                             | Florence.     | 136             | 16                      | 70.8                              | —1.9                       | 95       | 27    | 45      | *12   | 40                      | 2.10   | —1.64                      | 0.51                  | .....                 | 7                  | 19                 | 3                          | 9          | s.                    | H. K. Gilbert.                |
| Gaffney.                              | Cherokee.     | 893             | 8                       | 70.5                              | .....                      | 99       | 24    | 45      | *15   | 40                      | 1.84   | —0.62                      | 0.43                  | .....                 | 10                 | .....              | .....                      | .....      | .....                 | B. F. Camp.                   |
| Georgetown.                           | Georgetown.   | 12              | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....                 | .....                 | .....              | .....              | .....                      | .....      | .....                 | W. T. Turbeville.             |
| Gillisonville.                        | Hampton.      | 50              | 9                       | 70.6                              | —3.5                       | 94       | 26    | 48      | 12    | 35                      | 1.93   | —0.53                      | 0.63                  | .....                 | 6                  | 21                 | 6                          | 4          | e.                    | Sam P. Sauts.                 |
| Greenville.                           | Greenville.   | 989             | 12                      | 65.0                              | —3.0                       | 90       | 24    | 40      | 1     | 38                      | 1.93   | —1.57                      | 1.05                  | .....                 | 8                  | 18                 | 3                          | 10         | ne.                   | Mrs. S. A. Crittenden.        |
| Greenwood +.                          | Greenville.   | 671             | 16                      | 70.0                              | —1.6                       | 96       | 24    | 47      | 16    | 33                      | 3.05   | —0.75                      | 0.93                  | .....                 | 5                  | 21                 | 1                          | 9          | .....                 | M. M. Calhoun.                |
| Heath Springs.                        | Lancaster.    | .....           | 3                       | 69.0                              | .....                      | 93       | 27    | 42      | 16    | 32                      | 2.56   | .....                      | 1.10                  | .....                 | 10                 | 15                 | 10                         | 6          | sw.                   | J. A. Weaner.                 |
| Kingstree (1).                        | Williamsburg. | 54              | 16                      | 69.5                              | —2.8                       | 91       | *27   | 48      | 1     | 34                      | 0.90   | —2.38                      | 0.38                  | .....                 | 4                  | 20                 | 5                          | 6          | .....                 | S. H. Beard.                  |
| Kingstree (2).                        | .....         | 54              | 10                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 0.88   | —1.88                      | 0.39                  | .....                 | 4                  | 16                 | 5                          | 10         | ne.                   | A. O. Matthews.               |
| Liberty.                              | Pickens.      | 900             | 10                      | 69.6                              | —1.5                       | 96       | *24   | 38      | 17    | 45                      | 3.35   | +0.42                      | 1.05                  | .....                 | 8                  | 21                 | 9                          | 1          | s.                    | Jno. T. Boggs.                |
| +Little Mountain.                     | Newberry.     | 711             | 11                      | 70.7                              | —1.8                       | 95       | *24   | 49      | 15    | 31                      | 2.78   | —0.37                      | 1.00                  | .....                 | 9                  | 13                 | 13                         | 5          | s.                    | John M. Sease, M. D.          |
| Lugoff.                               | Kershaw.      | 168             | 3                       | 70.2                              | .....                      | 95       | 27    | 45      | 16    | 40                      | 1.94   | .....                      | 0.75                  | .....                 | 6                  | 20                 | 9                          | 2          | sw.                   | W. J. Burdell, M. D.          |
| Newberry.                             | Newberry.     | 502             | 0                       | 70.7                              | —0.3                       | 97       | 24    | 46      | 16    | 38                      | 2.76   | +0.26                      | 0.75                  | .....                 | 11                 | 18                 | 9                          | 4          | w.                    | W. G. Peterson.               |
| +Pinopolis.                           | Berkeley.     | 54              | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....                 | .....                 | .....              | .....              | .....                      | .....      | .....                 | E. P. Ravenel.                |
| St. Georges.                          | Dorchester.   | 109             | 16                      | 71.1                              | —1.2                       | 92       | *27   | 50      | *1    | 34                      | 0.83   | —2.31                      | 0.16                  | .....                 | 7                  | 22                 | 3                          | 6          | .....                 | W. B. Raysor.                 |
| St. Matthews.                         | Orangeburg.   | 269             | 16                      | 70.1                              | —2.8                       | 90       | *24   | 50      | *1    | 30                      | 1.46   | —1.84                      | 0.45                  | .....                 | 7                  | 21                 | 4                          | 6          | .....                 | J. S. Warramaker.             |
| St. Stephens.                         | Berkeley.     | 73              | 12                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.40   | —2.66                      | 0.48                  | .....                 | 5                  | 19                 | 2                          | 10         | s.                    | C. T. Shuler.                 |
| Saluda.                               | Saluda.       | 536             | 3                       | 69.7                              | .....                      | 96       | 24    | 41      | 12    | 44                      | 2.31   | .....                      | 1.21                  | .....                 | 8                  | 22                 | 4                          | 4          | w.                    | Alvin Etheridge.              |
| Santuc.                               | Union.        | 512             | 11                      | 69.0                              | —1.0                       | 97       | 24    | 41      | 12    | 44                      | 1.75   | —1.10                      | 0.76                  | .....                 | 7                  | 23                 | 6                          | 2          | w.                    | E. W. Jeter.                  |
| Savannah, Ga.                         | Chatham.      | 71              | 35                      | 72.7                              | —0.2                       | 92       | 27    | 58      | 3     | 27                      | 0.96   | —1.06                      | 0.47                  | .....                 | 7                  | 15                 | 13                         | 3          | s.                    | Weather Bureau.               |
| Seivern.                              | Aiken.        | 482             | 3                       | 69.8                              | —2.7                       | 97       | 27    | 42      | 1     | 43                      | 2.16   | —0.80                      | 0.60                  | .....                 | 7                  | 13                 | 13                         | 5          | sw.                   | Geo. C. Gunter.               |
| Smiths Mills.                         | Williamsburg. | 62              | 9                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 2.35   | —2.44                      | 0.70                  | .....                 | 7                  | 17                 | 6                          | 8          | w.                    | H. van Keuren.                |
| Society Hill.                         | Darlington.   | 192             | 13                      | 70.0                              | —2.0                       | 90       | 27    | 50      | 15    | 29                      | 2.83   | —0.57                      | 1.19                  | .....                 | 6                  | 15                 | 11                         | 5          | ne.                   | J. J. Lucas.                  |
| Spartanburg.                          | Spartanburg.  | 875             | 13                      | 69.5                              | —1.1                       | 97       | 24    | 44      | *1    | 39                      | 2.07   | —1.93                      | 0.62                  | .....                 | 7                  | 16                 | 4                          | 11         | .....                 | F. P. Robinson.               |
| Stateburg.                            | Sumter.       | 500             | 27                      | 71.2                              | —0.4                       | 93       | 27    | 51      | 16    | 31                      | 3.31   | —0.09                      | 0.85                  | .....                 | 11                 | 12                 | 10                         | 9          | sw.                   | W. W. Anderson, M. D.         |
| Summerville.                          | Dorchester.   | 75              | 7                       | 69.9                              | —1.5                       | 93       | 27    | 48      | 15    | 32                      | 2.77   | —0.45                      | 1.27                  | .....                 | 9                  | 17                 | 11                         | 3          | ne.                   | Miss L. R. Gadsden.           |
| Sumter.                               | Sumter.       | 169             | 3                       | 72.4                              | .....                      | 97       | 27    | 48      | *12   | 43                      | 0.23   | .....                      | 0.10                  | .....                 | 5                  | 20                 | 5                          | 6          | s.                    | Wm. D. Shaw.                  |
| +Trenton.                             | Edgefield.    | 620             | 11                      | 71.2                              | —2.7                       | 94       | *24   | 50      | *15   | 31                      | 2.17   | —0.74                      | 0.84                  | .....                 | 6                  | 16                 | 14                         | 1          | s.                    | C. A. Long.                   |
| Walhalla.                             | Berkeley.     | 85              | 18                      | 69.8                              | —0.6                       | 94       | 27    | 42      | 16    | 44                      | 1.56   | —3.05                      | 0.46                  | .....                 | 10                 | 14                 | 12                         | 5          | ne.                   | Etsell Gaillard.              |
| Walterboro.                           | Oconee.       | 1061            | 13                      | 66.7                              | —0.6                       | 95       | 24    | 40      | 15    | 39                      | 4.67   | +1.73                      | 2.25                  | .....                 | 6                  | 23                 | 4                          | 4          | sw.                   | J. D. Isbell.                 |
| Wilmington, N. C.                     | Colleton.     | 1               | 70.5                    | .....                             | .....                      | 93       | 27    | 47      | 15    | 35                      | 1.21   | .....                      | 0.47                  | .....                 | 6                  | 17                 | 12                         | 3          | ne.                   | J. A. Westerberg.             |
| Winnboro.                             | New Hanover.  | 52              | 35                      | 68.9                              | —0.8                       | 87       | 24    | 50      | 4     | 25                      | 2.68   | —1.48                      | 1.12                  | .....                 | 10                 | 15                 | 13                         | 3          | se.                   | Weather Bureau.               |
| Winthrop College.                     | Fairfield.    | 545             | 15                      | 71.2                              | —0.3                       | 92       | 24    | 54      | *15   | 28                      | 3.12   | —0.18                      | 1.10                  | .....                 | 6                  | 19                 | 10                         | 2          | sw.                   | John W. Seigler.              |
| Yemassee.                             | York.         | 690             | 5                       | 70.0                              | —1.4                       | 95       | 24    | 48      | 15    | 35                      | 0.87   | —2.57                      | 0.22                  | .....                 | 8                  | 17                 | 13                         | 1          | sw.                   | Geo. B. Green.                |
| Yorkville.                            | Beaufort.     | 23              | 9                       | 71.1                              | —3.5                       | 93       | *24   | 50      | 12    | 35                      | 1.94   | —0.56                      | 0.65                  | .....                 | 7                  | 23                 | 2                          | 6          | .....                 | J. G. Hutson.                 |
| Yorkville.                            | York.         | 680             | 16                      | 71.2                              | —0.1                       | 98       | 24    | 48      | 15    | 34                      | 2.62   | —0.96                      | 1.05                  | .....                 | 9                  | 12                 | 15                         | 4          | sw.                   | J. R. Schorb.                 |
| MEANS—highest, lowest and dates, etc. | .....         | .....           | .....                   | 70.6                              | —1.4                       | 99       | 24    | 38      | 17    | 48                      | 2.04   | —1.34                      | 2.25                  | .....                 | 7                  | 18                 | 8                          | 5          | s.                    | .....                         |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.    † Maximum thermometer not standard.    ‡ Minimum thermometer not standard.  
§ Exposed not standard.    \* On other dates also.    a indicates 1 day missing, b, 2 days, etc.

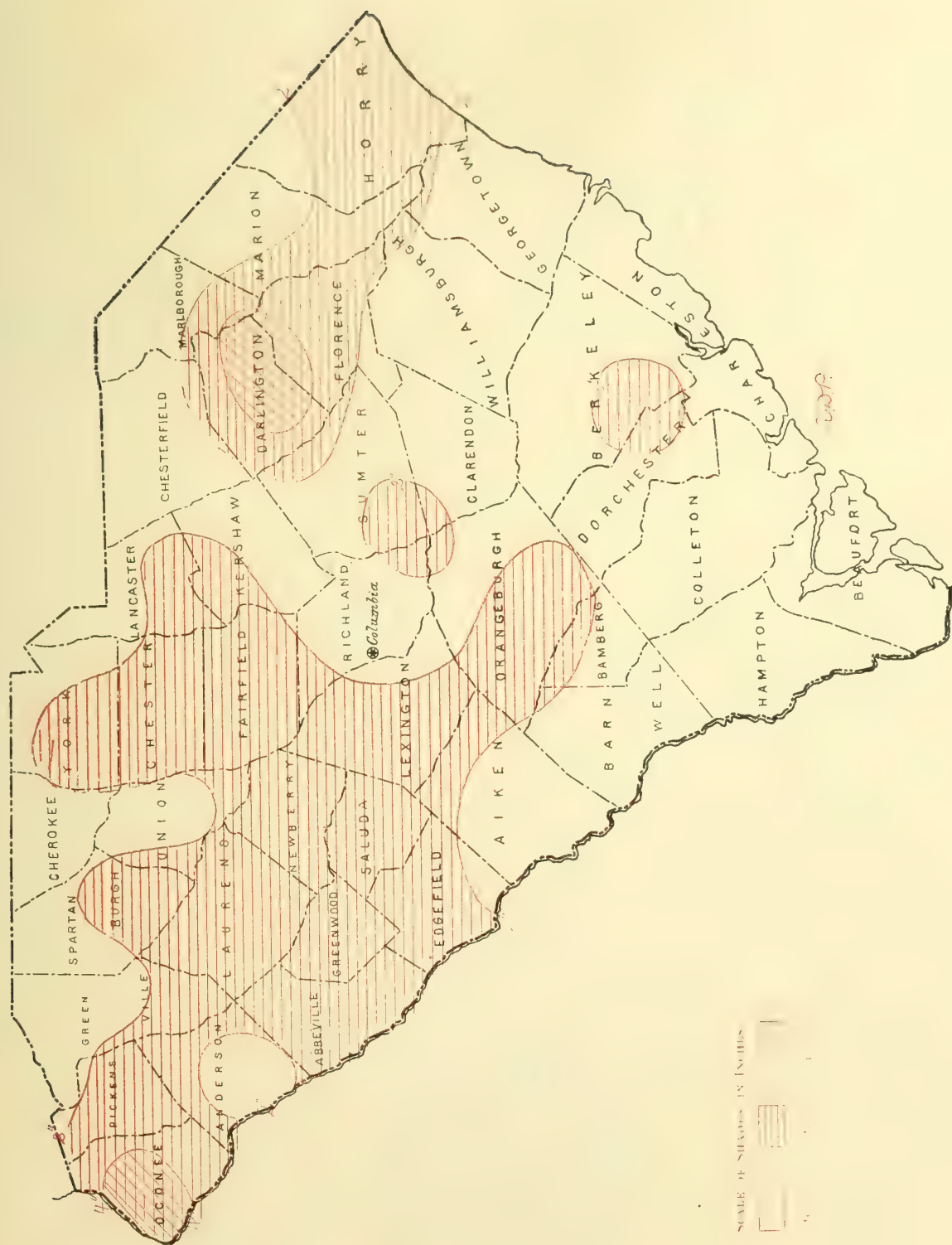


STATION. 2.

[illegible]



# TOTAL PRECIPITATION FOR MAY, 1904.



SCALE OF SHADES IN INCHES





## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1904.

| STATIONS.         | Day of Month. |      |      |     |     |      |      |     |     |     |     |    |    |     |     |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     | Total. |      |      |      |      |      |      |      |      |      |
|-------------------|---------------|------|------|-----|-----|------|------|-----|-----|-----|-----|----|----|-----|-----|-----|-----|------|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|--------|------|------|------|------|------|------|------|------|------|
|                   | 1             | 2    | 3    | 4   | 5   | 6    | 7    | 8   | 9   | 10  | 11  | 12 | 13 | 14  | 15  | 16  | 17  | 18   | 19  | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  | 31  |        |      |      |      |      |      |      |      |      |      |
| Aiken             |               |      |      |     |     |      | .50  |     |     |     |     |    |    | .20 |     |     |     |      |     |    |    |    |    |    |    |    |    |    |    | .20 | .25 | 1.65   |      |      |      |      |      |      |      |      |      |
| Allendale         |               |      |      |     |     |      |      |     |     |     |     |    |    |     |     |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        | 0.60 |      |      |      |      |      |      |      |      |
| Anderson          |               | T.   | T.   |     |     |      | .52  | .03 |     |     |     |    |    |     |     |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        | 1.57 |      |      |      |      |      |      |      |      |
| Augusta, Ga.      |               |      | .12  |     |     |      | .02  |     | T.  |     |     |    |    | .18 |     |     | .17 |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        | 0.99 |      |      |      |      |      |      |      |      |
| Barksdale         |               | .13  | 1.21 | .31 |     |      | .05  | .30 |     |     |     |    |    |     | .43 |     | .10 |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        | 3.86 |      |      |      |      |      |      |      |      |
| Batesburg         |               |      |      | .15 |     |      |      | .32 | .14 |     |     |    |    |     | .23 |     | .28 | T.   |     |    |    |    |    |    |    |    |    |    |    |     |     |        | 2.88 |      |      |      |      |      |      |      |      |
| Beaufort          |               | .14  |      |     | T.  | .13  | .07  |     |     |     |     |    |    |     | .04 |     | T.  |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        | 0.42 |      |      |      |      |      |      |      |      |
| Bennettsville     |               |      |      |     |     |      |      |     |     |     |     |    |    |     |     |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        | 0.40 |      |      |      |      |      |      |      |      |
| Blackville        |               |      | .01  | .03 |     |      | .02  | .24 |     |     |     |    |    |     | T.  | .41 | .55 | T.   |     |    |    |    |    |    |    |    |    |    |    |     | .10 | .50    | 1.86 |      |      |      |      |      |      |      |      |
| Bowman            |               | .30  | T.   |     |     |      | .05  | .15 | .20 |     |     |    |    |     | .30 |     | .45 | .15  |     |    |    |    |    |    |    |    |    |    |    |     |     |        | .80  | 2.50 |      |      |      |      |      |      |      |
| Calhoun Falls     |               |      |      | .42 |     |      |      |     |     |     |     |    |    |     |     | .98 |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      | 1.15 | .84  | 3.39 |      |      |      |      |      |
| Camden            |               |      |      | .07 |     |      |      | .98 |     |     |     |    |    |     |     |     | .15 | .20  | T.  |    |    |    |    |    |    |    |    |    |    |     |     |        |      | .06  | 1.46 |      |      |      |      |      |      |
| Charleston        |               | T.   |      | T.  | T.  | .15  | .57  |     |     |     |     |    |    |     | .04 | .35 | T.  | .09  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      | .26  | 1.46 |      |      |      |      |      |      |
| Charlotte, N. C.  |               | .14  | .01  | .12 |     |      | .63  | T.  | T.  |     |     |    |    |     | .06 | .02 | .23 | .01  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      | .01  | .92  | 2.15 |      |      |      |      |      |
| Cheraw(1)         |               | .26  |      | .08 |     |      | .09  | .23 |     | .41 |     |    |    |     | .12 | .23 | .19 | .09  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      | T.   | 1.70 |      |      |      |      |      |
| Cheraw(2)         |               | .33  |      | .05 |     |      | .07  | .32 |     | .36 |     |    |    |     | .10 | .30 | .25 | .07  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      | .02  |      | 1.87 |      |      |      |      |      |
| Clark's Hill      |               |      | .31  |     |     |      | T.   | T.  | .21 |     |     |    |    |     | .20 |     | .28 |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      | .12  | .97  | 3.7  |      |      |      |      |
| Clemson College   |               | .31  | .15  | .08 |     |      | .06  | .06 |     |     |     |    |    |     | .25 |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      | .06  | .85  | 2.08 |      |      |      |      |      |
| Columbia          |               | T.   | .11  | T.  |     |      | .03  | .10 | T.  | T.  |     |    |    |     | .30 |     | .11 | .03  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      | .19  | .13  | 1.00 |      |      |      |      |
| Conway            |               |      | .65  | T.  | T.  |      | .25  | .20 |     |     |     |    |    |     | T.  |     | .20 | T.   | .40 |    |    |    |    |    |    |    |    |    |    |     |     |        |      | .15  |      | 2.40 |      |      |      |      |      |
| Darlington        |               | 1.71 | .24  |     |     |      | .89  |     |     |     |     |    |    |     | .18 |     | .64 | .18  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      | .05  | .47  | 4.36 |      |      |      |      |
| Dillon            |               | .13  | .03  |     |     |      | .20  | .07 |     |     |     |    |    |     | .20 |     | .48 | .12  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      | .46  | 1.69 |      |      |      |      |
| Due West          |               |      | .08  |     |     |      | .04  | .07 |     |     |     |    |    |     | .12 |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      | 1.18 | .71  | 1.09 | 3.29 |      |      |      |
| Edisto            |               |      |      |     |     |      |      |     |     |     |     |    |    |     |     |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      |      |      |      |      |
| Effingham         |               |      | T.   | .26 |     | T.   |      | .25 | T.  | .11 |     |    |    |     | T.  |     | .40 |      | .25 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | 1.27 |      |      |      |      |
| Florence          |               | .19  | .18  |     | T.  |      |      | .50 |     | .12 |     |    |    |     | T.  |     | .51 | .28  | .32 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | 2.10 |      |      |      |      |
| Gaffney           |               | .43  | .03  |     |     |      | .05  | .15 | .20 | .19 |     |    |    |     | .05 | .25 |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      | .30  | .19  | 1.84 |      |      |      |
| Georgetown        |               |      |      |     |     |      |      |     |     |     |     |    |    |     |     |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      |      |      |      |      |
| Gillisonville     |               | .63  | .03  |     |     |      | .33  |     |     |     |     |    |    |     | .55 |     |     | .15  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      | .24  | 1.93 |      |      |      |      |
| Greenville        |               |      | .10  | .02 |     |      |      | .22 | .02 |     |     |    |    |     | .30 | .13 |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      | .09  | 1.05 | 1.93 |      |      |      |      |
| Greenwood         |               |      | .93  | .05 |     |      |      |     |     |     |     |    |    |     | .42 | T.  |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      | .75  | .90  | 3.05 |      |      |      |
| Heath Springs     |               |      | .04  |     |     |      | T.   | .45 | .01 | .07 |     |    |    |     | .22 |     | .33 | .22  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      | .08  | 1.10 | 2.56 |      |      |      |
| Kingstree(1)      |               |      |      |     |     |      | T.   | .26 |     |     |     |    |    |     | .22 |     | T.  | .38  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .04  | 0.90 |      |      |      |
| Kingstree(2)      |               |      | T.   |     |     |      | T.   | .22 |     |     |     |    |    |     | .21 |     | T.  | T.   | .39 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .06  | 0.88 |      |      |      |
| Liberty           |               | .40  |      | .38 |     |      | .25  | .03 |     |     |     |    |    |     | .30 |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      | .15  | 1.05 | .79  | 3.35 |      |      |
| Little Mountain   |               |      | .17  |     |     |      | .12  | .01 |     |     |     |    |    |     | .40 |     | .23 | .04  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | 1.00 | .71  | 1.10 | 2.78 |      |
| Lugoff            |               |      | T.   |     |     |      | .49  | .05 |     |     |     |    |    |     | .21 |     | .75 | .14  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .30  | 1.94 |      |      |      |
| Newberry          |               | .04  | .55  |     |     | T.   | .06  | .13 |     |     |     |    |    |     | .48 |     | .13 | .04  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .75  | .41  | .16  | 2.76 |      |
| Pinopolis         |               |      |      |     |     |      |      |     |     |     |     |    |    |     |     |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      |      |      |      |      |
| St. Georges       |               |      | .16  |     |     |      | .14  |     |     | .06 |     |    |    |     | .08 |     |     |      | .15 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .14  | .10  |      | 0.83 |      |
| St. Matthews      |               |      | .45  |     |     |      |      |     | .40 |     | .11 |    |    |     | .18 |     | .01 |      | .21 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .10  |      | 1.46 |      |      |
| St. Stephens      |               | .20  |      |     |     |      | .30  |     | .36 |     |     |    |    |     |     |     |     |      | .48 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .06  |      | 1.40 |      |      |
| Saluda            |               | .08  |      |     |     |      | .09  | T.  | .03 |     |     |    |    |     | .14 |     | .26 | .03  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .47  | 1.21 | 2.31 |      |      |
| Santuc            |               |      | .18  | .18 |     |      | .04  | T.  |     |     |     |    |    |     | .15 |     | .12 | T.   |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .76  | .32  | 1.75 |      |      |
| Savannah, Ga.     |               | .47  |      |     | T.  | .06  | .13  |     | .05 |     |     |    |    |     | T.  | .17 | .10 | T.   |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      | .01  |      | .23  | 0.96 |      |      |
| Seivern           |               |      | .35  |     |     |      | .60  | .06 | T.  |     |     |    |    |     | T.  | .17 | .10 | T.   |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .32  | .56  | 2.16 |      |      |
| Smiths Mills      |               | .20  | T.   | T.  |     |      | .20  | .30 |     |     |     |    |    |     | .10 |     | .40 |      | .45 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      | .70  |      | 2.35 |      |      |
| Society Hill      |               |      |      |     | T.  | .19  |      | .41 |     |     |     |    |    |     | .24 |     | .24 |      | .15 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | .60  |      | 2.83 |      |
| Spartanburg       |               |      | .25  | .35 |     |      | .03  | .21 | .09 |     |     |    |    |     | T.  | T.  |     | T.   |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | .52  | .62  | 2.07 |      |
| Stateburg         |               |      | .77  |     |     |      | .04  |     |     | .41 |     |    |    |     | .46 |     | .31 | .15  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | .02  | .85  | 3.31 |      |
| Summerville       |               | T.   | .03  | .06 |     |      | .21  | .77 | .04 |     |     |    |    |     | .16 |     | .06 | .07  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | T.   | .89  | .27  | 2.77 |
| Sunter            |               |      | T.   |     |     |      | .10  |     |     | .01 |     |    |    |     |     | .01 |     | .10  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | .01  |      | 0.23 |      |
| Trenton           |               |      | .14  |     |     |      |      | .08 | T.  |     |     |    |    | .12 |     |     |     |      | .35 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | .47  | .82  | .54  | 2.17 |
| Trial             |               | .01  | T.   |     | .18 | .11  | .16  | T.  |     |     |     |    |    |     | .04 |     | .04 |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | .06  |      | 1.56 |      |
| Walhalla          |               |      | .12  |     |     |      |      | .1  | .50 |     |     |    |    |     | .10 |     |     |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | .05  | 2.25 | .65  | 4.67 |
| Walterboro        |               | .06  | T.   |     | .04 | T.   | .31  |     |     |     |     |    |    |     |     | .17 |     | T.   | .16 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      |      | .47  |      | 1.21 |
| Wilmington, N. C. |               |      | .25  | .08 | .02 | 1.01 | .12  | .01 | .08 |     |     |    |    |     | T.  | T.  |     | 1.05 | .01 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      | .32  | .33  |      | 3.12 |
| Winnsboro         |               |      | .27  |     |     |      | 1.10 |     | .30 |     |     |    |    |     |     | .11 | .80 |      |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      |      | .15  | .22  | 0.87 |
| Winthrop College  |               | T.   | T.   |     |     |      | .03  | .10 |     |     |     |    |    |     | .04 | .11 | .16 | .06  |     |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      |      | .21  | 1.94 |      |
| Yemassee          |               |      | .56  | .02 | T.  | T.   | .06  | .16 | T.  |     |     |    |    |     |     | .65 |     |      | .28 |    |    |    |    |    |    |    |    |    |    |     |     |        |      |      |      |      |      |      |      |      |      |

T indicates trace, less than .01 inch.



1904. 05.  
7/15/04  
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JUNE, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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BY

J. W. BAUER,

SECTION DIRECTOR.



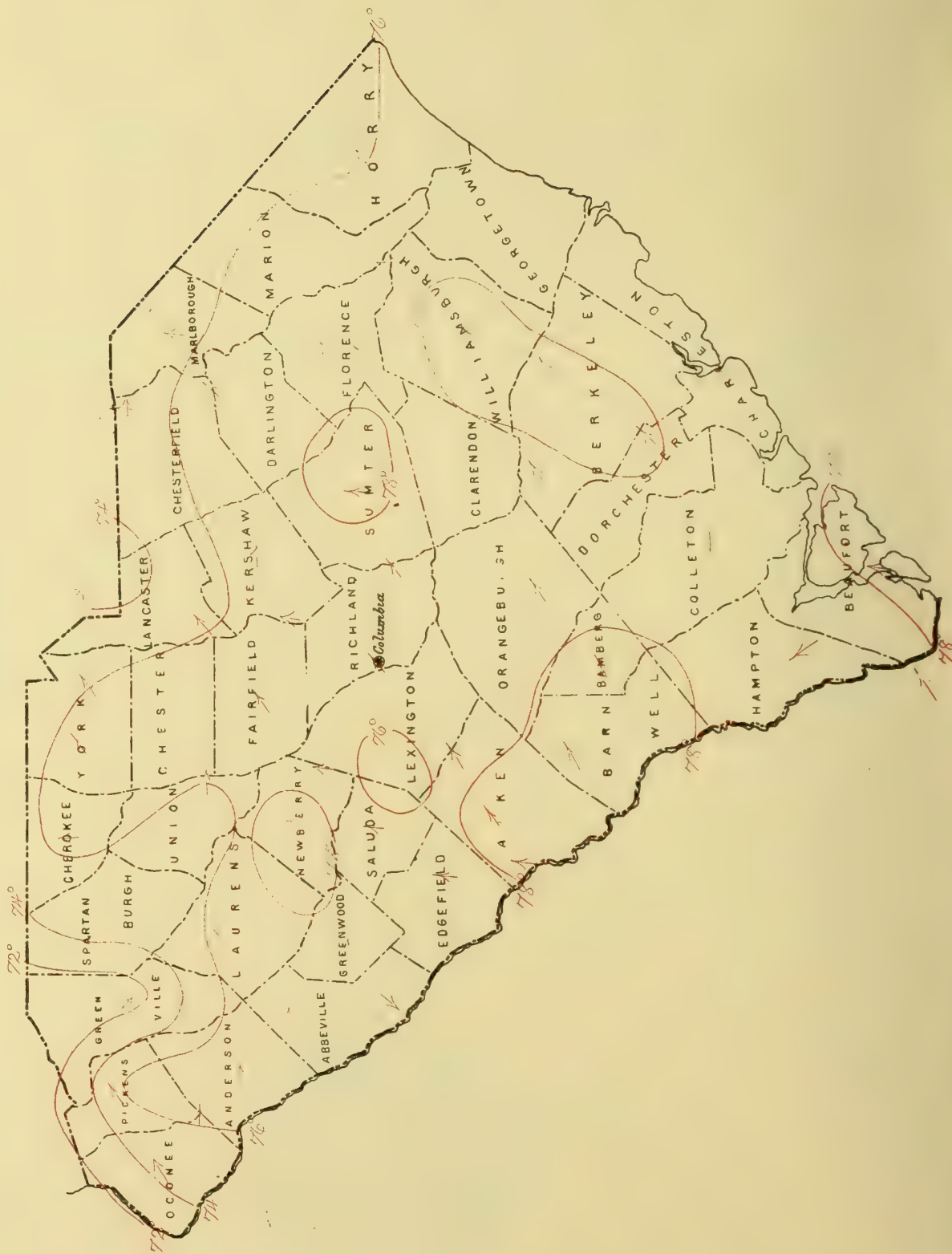
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

JULY 23, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JUNE, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.  
**CLIMATE AND CROP SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.  
  
SOUTH CAROLINA SECTION.  
J. W. BAUER, Section Director,  
COLUMBIA, S. C.

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**PROGRESS OF FARM WORK.**

The growth and development of crops were generally satisfactory during June. The average temperature was below normal, but the departures were small, except from the 13th to the 16th, during which time the nights were abnormally cool, to the detriment of cotton whose growth was checked, while the cool weather caused lice to develop and to infest fields over the whole State. The subsequent weather, to the close of the month, was warm but without any excessive heat, and the lice quickly disappeared without having done any serious injury.

The precipitation was deficient in the Savannah valley counties, in a few western counties, and in the coast counties, and it was excessive in parts of the northeastern counties. The State average was about an inch below normal. There were five showery periods, as follows: on the 1st; on the 7th-8th; on the 10th-11th; on the 19th-22nd; and on the 27th-30th. This would indicate sufficiently frequent rains to keep the soil moist enough for rapid growth, and also with plenty of time between rains for the thorough cultivation of field crops, but, as indicated above, the showers were so light in parts of the State that drought conditions prevailed. Field crops were generally well cultivated and free from grass and weeds.

The weather conditions were favorable on cotton which made moderately rapid growth on sandy lands where the plants are as forward as usual to the season, and where squares formed freely and some blooms appeared; on clay and red lands growth was less rapid and the plants continue small for the season, although they began to fruit during the last decade. The whole cotton crop maintained a healthy color, and the plants were free from insects and disease, and presented a most promising condition.

Early corn deteriorated slightly in the dry parts of the State, but made great improvement where the rainfall was ample. It reached the "silk and tassel" stage of growth, and most of it was laid by clean and well cultivated. May and June plantings became very promising.

Tobacco developed into a fine, promising crop; some of the lower leaves were pulled and cured. There was little damage from worms and only slight damage from hail.

Rice suffered from drought, and lack of fresh water for flooding, but was otherwise quite promising. Wheat and oats harvest, and threshing, were finished during the month, under favorable weather conditions. The yields of wheat were poor in the central counties and excellent in the western ones. The oats yields were variable, making it difficult to characterize the crop as a whole. The commercial peach crop ripened throughout the month. The yields were large and the quality of the fruit unsurpassed in recent years. Water-melons were late in ripening. Truck shipments gradually dwindled as the season advanced. The condition of the many minor crops, gardens and pastures varied as the rainfall was either ample or deficient.

**Barometer and Wind Table for June, 1904.**

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.02      | 30.27    | 24    | 29.83   | 10    | 4.694           | 6.5             | 30                | W.         | 7     |
| Charleston. ....       | 30.05      | 30.30    | 4     | 29.87   | 11    | 7.947           | 11.0            | 40                | ne.        | 12    |
| Charlotte, N. C. ....  | 30.04      | 30.32    | 24    | 29.88   | 21    | 4.500           | 6.2             | 22                | SW.        | 19    |
| Columbia. ....         | 30.02      | 30.30    | 24    | 29.87   | 10    | 6.234           | 8.7             | 30                | ne.        | 13    |
| Savannah, Ga. ....     | 30.04      | 30.28    | 24    | 29.84   | 10    | 5.795           | 7.5             | 31                | n.         | 7     |
| Wilmington, N. C. .... | 30.02      | 30.29    | 24    | 29.86   | 11    | 5.756           | 8.0             | 24                | W.         | 29    |
| Averages. ....         | 30.03      | 30.32    | 24    | 29.83   | 10    | 5.806           | 8.1             | 40                | ne.        | 12    |

**CLIMATOLOGY FOR THE MONTH.**

**Temperature, in Degrees Fahrenheit.**

The mean temperature for June, 1904, was 77.0°, which is 1.3° below normal. The highest local mean was 79.8° at Aiken; the lowest 72.0° at Greenville. The highest maximum temperature was 102° at Blackville on the 4th; the lowest minimum was 48° at Heath Springs on the 14th, and at Santuc and Saluda on the 15th, making the State range 54°. The greatest local monthly range was 51° at Santuc and Seivern, the least was 33° at Charleston. The mean of the daily maximum temperature was 88.7°, and of the daily minimum temperatures was 65.4°, making the average daily range 23.3°.

**Precipitation, in Inches.**

The precipitation averaged 4.06 inches, which is 1.09 below normal. The greatest local amount was 11.17 inches at Effingham, the least was 0.55 at Aiken. The greatest 24 hour fall was 4.00 inches at Bennettsville on the 29th-30th. The average number of days with 0.01, or more, precipitation was 8, ranging from 2 at Aiken to 13 at Trial.

Hail.—Hail occurred at the following stations: Anderson, 28th; Barksdale, Spartanburg, 19th; Blackville, Liberty, 7th; Camden, 18th; Lugoff, 18th-21st.

Excessive Precipitation.—Bennettsville, 15th, 3.00 inches in 24 hrs.; on the 29th-30th, 4.00 inches in 24 hrs.; Blackville, 28th-29th, 2.69 inches in 24 hrs.; Clarks Hill, 29th, 2.03 inches in 1 hr. 30 mins.; Clemson College, 7th, 1.95 inches in 2 hrs.; Effingham, 1st, 3.02 inches in 24 hrs.; Florence, 1st, 2.43 inches in 20 mins.; Lugoff, 10th, 2.53 inches in 50 mins.;



St. Stephens, 29th, 3.50 inches in 1 hr. 30 mins.; Society Hill, 29th, 2.90 inches in 24 hrs.; Yorkville, 29th, 3.49 inches in 24 hrs.

Weather.—The average number of clear days was 18, of partly cloudy ones 7, and of cloudy ones 5.

Winds.—The prevailing direction of the wind was from the southwest at 25 stations, from the south at 13, from the west at 7, and from the north, northeast, east, southeast and northwest at 1 station each.

High Winds.—Barksdale, Yorkville, 12, 13; Bowman, Charleston, Gillisonville, 12; Cheraw, Heath Springs, 28; Columbia, 13; Little Mountain, 12, 13, 14; Newberry, 6; Society Hill, 20.

#### MISCELLANEOUS PHENOMENA (with dates).

Parhelia.—Liberty, 26.

Lunar Corona.—Santuc, 27.

Lunar Halos.—Charleston, 20, 22, 23; Saluda, 26.

Solar Halos.—Charleston, 10, 26, 27, 29; Trial, 12.

Fogs, Dense.—Anderson, Greenwood, Saluda, Columbia, 2; Blackville, Stateburg, 2, 24; Charleston, Kingstree, 18; Liberty, 2, 8; Seivern, 3; Trial, 9, 10, 24; Yemassee, 18, 24; Dillon, 25, 26.

Thunderstorms.—Anderson, Clemson College, Heath Springs, 28th; Barksdale, 6, 7, 18, 19, 27, 28; Beaufort, 1, 5, 7, 8, 9, 10, 12, 19, 21, 22, 23, 24, 27, 29, 30; Bennettsville, 28, 29; Blackville, 1, 7, 20, 21, 28, 30; Bowman, 1, 7, 8, 10, 12, 20, 21, 29, 30; Camden, 10, 18; Cheraw, 3, 7, 8, 10, 11, 12, 20, 28, 29, 30; Clarks Hill, 7, 29; Darlington, 10, 29; Dillon, 10, 20, 30; Due West, 19, 27, 28, 30; Gillisonville, 1, 4, 7, 8, 10, 20, 21, Greenville, 6, 7, 28th; Liberty, 1, 2, 6, 7, 11, 17, 18, 19, 20, 21, 27, 28, 29; Little Mountain, 20, 21, 28; Lugoff, 5, 7, 10, 18, 21, 22, 27, 28, 29; Newberry, 1, 7, 10, 11, 18, 19, 20, 21, 27, 28, 29, 30; Saluda, 1, 7, 28; Santuc, 19, 20; Seivern, 8, 19, 20, 21, 22; Society Hill, 7, 10, 20, 28, 29, 30; Stateburg, 1, 17, 20, 21, 22, 28, 29, 30; Summerville, 1, 10, 12, 20, 21, 29, 30; Trenton, 1, 7, 19, 20, 21, 22, 27, 28; Trial, 1, 7, 8, 10, 20, 21, 22, 30; Walterboro, 29, 30; Winthrop College, 1, 2, 7, 11, 18, 19, 21, 22, 27, 28, 29; Yorkville, 11, 18, 19, 28, 29.

There was a total of 177 thunderstorms reported, on 24 dates, as follows: 12 on the 1st, 2 on the 2nd, 2 on the 3rd, 1 each on the 4th and 5th, 3 on the 6th, 16 on the 7th, 6 on the 8th, 2 on the 9th, 12 on the 10th, 6 on the 11th, 4 on the 12th, 2 on the 17th, 7 on the 18th, 9 on the 19th, 15 on the 20th, 14 on the 21st, 7 on the 22nd, 1 each on the 23rd and 24th, 8 on the 27th, 19 on the 28th, 15 on the 29th, and 12 on the 30th.

In addition the above, Charleston reported thunderstorms on the 1, 2, 7, 8, 10, 12, 20, 21, 22, 23, 28, 29, 30; Columbia on the 4, 5, 7, 10, 18, 20, 21, 28, 30.

The first cotton bloom was noted at Beaufort on June 12th. The first katy-did was heard at Saluda on the 29th.

Errata.—In the May, 1904, monthly report, on page 5, Greenwood mean temperature 70.0° should be 70.4°; page 6, Stateburg minimum temperature on 31st, 66° should be 65°.

#### REMARKS BY OBSERVERS.

Allendale.—The light rainfall was injurious to cotton and melons.—C. A. Glover.

Barksdale.—Crops did well. By the close of the month, cotton blooms were quite plentiful; the rains were very beneficial on the closing days. Destructive hail occurred within 2 miles of the station, on the 19th.—J. T. Garrett.

Batesburg.—The crop prospects continued promising throughout the month.—E. J. Hite.

Beaufort.—Mean temperature 2.4° below normal; precipitation 1.46 inches below. Cotton planted the first of the month looks well; early cotton is in bloom; corn did not do so well.—S. M. Benton.

Bennettsville.—Cotton did fairly well; old corn made fine progress; considerable corn planted this month, on stubble lands, and is doing well.—Jno. L. McCall.

Bowman.—The weather was favorable throughout the month for all crops, and prospects are very encouraging. Peaches and berries were plentiful.—B. O. Evans.

Clarks Hill.—Very dry and hot from the 7th to 29th. Subsoil drier than known for many years, and wells went dry.—Wm. S. Middleton.

Darlington.—Very heavy rain occurred on the 29th, when 1.18 inches fell in a short time; it was the first washing rain of the season.—E. R. McIver.

Dillon.—Gardens suffered for rain, but corn and cotton did well.—A. E. Rowell.

Gillisonville.—Month hot and dry. Crops improved during the first half, and were at a standstill during the latter half. Cotton remained small, but looked well at close. Corn did poorly.—Sam P. Saltus.

Heath Springs.—Crops on bottom lands were damaged by high water on the 29th. All crops did well this month.—J. A. Weaner.

Liberty.—Rainfall well distributed, and crops did well. Cotton grew rapidly, but fruited sparingly. Fruit plentiful.—Jno. T. Boggs.

Newberry.—Very dry month. Corn suffered from the drought.—W. G. Peterson.

Santuc.—It was a dry June, but crops made good growth, the temperature was generally favorable for growing crops.—E. W. Jeter.

Society Hill.—Oats were harvested; yields fine. Excessive rainfall was damaging to cotton. Corn and sweet potatoes very promising.—Maj. J. J. Lucas.

Stateburg.—The rains interfered but little with the cultivation of field crops, which were clean and well worked by the close of the month. The cool weather near the middle of the month caused lice to develop on cotton.—W. W. Anderson, M. D.



CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1904.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         | Precipitation—inches. |                       |        |                            | Sky                   |                                      |                    |                    | Observers. |                            |                     |  |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-----------------------|-----------------------|--------|----------------------------|-----------------------|--------------------------------------|--------------------|--------------------|------------|----------------------------|---------------------|--|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date.                 | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall—unmelted in 3 months. | Number rainy days. | Number clear days. |            | Number partly cloudy days. | Number cloudy days. | Prevailing direction and amount of wind. |
| Aiken                                 | Aiken        | 565             | 3                       | 79.8                               | +1.0                       | 101      | 10    | 51      | *11                   | 48                    | 0.55   | 3.71                       | 0.30                  | .....                                | 2                  | 18                 | 8          | 4                          | SW.                 | C. E. Carmen                             |
| Allendale                             | Barnwell     | 186             | 16                      | 79.0                               | +1.1                       | 98       | 20    | 50      | *11                   | 31                    | 1.42   | 3.13                       | 0.64                  | .....                                | 5                  | 20                 | 0          | 10                         | W.                  | C. A. Glover.                            |
| Anderson                              | Anderson     | 704             | 3                       | 76.6                               | +0.7                       | 98       | 5     | 55      | 11                    | 34                    | 3.93   | 1.50                       | 1.64                  | .....                                | 6                  | 18                 | 12         | 0                          | W.                  | R. B. Denn.                              |
| Augusta, Ga.                          | Richmond     | 134             | 33                      | 78.2                               | -0.6                       | 96       | 4     | 56      | 15                    | 30                    | 1.47   | 3.13                       | 0.52                  | .....                                | 7                  | 15                 | 4          | 1                          | W.                  | Weather Bureau.                          |
| Barksdale                             | Laurens      | 780             | 3                       | 77.5                               | .....                      | 98       | 20    | 54      | 11                    | 34                    | 2.18   | .....                      | 1.06                  | .....                                | 8                  | 17                 | 12         | 1                          | SW.                 | J. T. Garrett.                           |
| Batesburg                             | Lexington    | 656             | 16                      | 76.2                               | -2.6                       | 95       | 5     | 52      | 14                    | 36                    | 2.27   | 1.39                       | 0.62                  | .....                                | 6                  | 17                 | 6          | 7                          | W.                  | E. J. Hite.                              |
| Beaufort                              | Beaufort     | 28              | 18                      | 78.0                               | -2.4                       | 96       | 22    | 59      | 11                    | 26                    | 3.62   | 1.46                       | 1.40                  | .....                                | 10                 | 17                 | 12         | 1                          | W.                  | S. M. Benton.                            |
| Bennettsville                         | Marlboro     | .....           | 3                       | 78.6                               | .....                      | 98       | 7     | 50      | *12                   | 25                    | 8.13   | .....                      | 4.00                  | .....                                | 5                  | 22                 | 3          | 5                          | S.                  | Jno. L. McCall.                          |
| Blackville                            | Barnwell     | 296             | 16                      | 79.2                               | -0.9                       | 102      | 4     | 55      | *13                   | 32                    | 4.87   | -0.38                      | 2.69                  | .....                                | 8                  | 19                 | 11         | 0                          | SW.                 | G. D. C. Lange.                          |
| Bowman                                | Orangeburg   | 160             | 3                       | 77.8                               | .....                      | 98       | 4     | 55      | *14                   | 35                    | 2.90   | .....                      | 1.66                  | .....                                | 8                  | 21                 | 8          | 1                          | SW.                 | B. O. Evans.                             |
| Calhoun Falls                         | Abbeville    | 508             | 11                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | 1.29   | 2.72                       | 0.56                  | .....                                | 3                  | 25                 | 0          | 5                          | NE.                 | P. J. Pfeiffer.                          |
| Camden                                | Kershaw      | 222             | 38                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | 3.65   | -0.44                      | 1.25                  | .....                                | 7                  | 19                 | 2          | 0                          | W.                  | J. C. Whitaker.                          |
| Charleston                            | Charleston   | 48              | 35                      | 77.1                               | -2.0                       | 92       | 22    | 59      | 11                    | 20                    | 3.82   | -1.83                      | 2.38                  | .....                                | 10                 | 3                  | 24         | 3                          | W.                  | Weather Bureau.                          |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 26                      | 75.1                               | -0.7                       | 91       | 26    | 51      | 14                    | 27                    | 6.42   | +1.83                      | 2.12                  | .....                                | 8                  | 13                 | 9          | 8                          | SW.                 | Weather Bureau.                          |
| Cheraw (1)                            | Chesterfield | 144             | 16                      | 75.9                               | -2.5                       | 98       | *4    | 53      | 11                    | 30                    | 5.58   | +0.49                      | 1.67                  | .....                                | 8                  | 13                 | 8          | 9                          | W.                  | W. R. Godfrey.                           |
| Cheraw (2)                            | .....        | 144             | 11                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | 6.78   | +0.77                      | 1.75                  | .....                                | 9                  | 19                 | 3          | 8                          | W.                  | Jno. H. Powe.                            |
| Clarks Hill                           | Edgefield    | 456             | 2                       | 77.6                               | .....                      | 98       | 4     | 55      | *14                   | 34                    | 4.20   | .....                      | 2.03                  | .....                                | 7                  | .....              | .....      | .....                      | .....               | Wm. S. Middleton.                        |
| Clemson College                       | Oconee       | 850             | 13                      | 75.2                               | -1.9                       | 96       | *5    | 50      | 15                    | 38                    | 3.82   | -1.94                      | 1.95                  | .....                                | 7                  | 16                 | 10         | 4                          | W.                  | Prof. C. C. Newman.                      |
| Columbia                              | Richland     | 351             | 17                      | 77.3                               | -1.7                       | 94       | 5     | 56      | 12                    | 26                    | 3.05   | 1.11                       | 1.09                  | .....                                | 8                  | 14                 | 11         | 5                          | SW.                 | Central Office.                          |
| Conway                                | Horry        | 25              | 13                      | 75.9                               | .....                      | 96       | 4     | 53      | 14                    | 32                    | 4.00   | -0.81                      | 1.15                  | .....                                | 7                  | 25                 | 2          | 3                          | SW.                 | McQ. Quantlebaum.                        |
| +Darlington                           | Darlington   | 175             | 9                       | 77.2                               | .....                      | 97       | *4    | 50      | 14                    | 41                    | 6.27   | +0.03                      | 2.10                  | .....                                | 8                  | 19                 | 7          | 4                          | .....               | E. R. Melver.                            |
| Dillon                                | Marion       | 100             | 0                       | 77.4                               | .....                      | 98       | 4     | 52      | 14                    | 33                    | 2.92   | .....                      | 1.00                  | .....                                | 9                  | .....              | .....      | .....                      | .....               | A. E. Rowell.                            |
| Due West                              | Abbeville    | 740             | 3                       | 77.0                               | .....                      | 93       | 5     | 57      | 12                    | 27                    | 1.56   | .....                      | 0.54                  | .....                                | 5                  | 20                 | 3          | 7                          | W.                  | Rev. O. Y. Bonner.                       |
| Edisto                                | Bamberg      | 127             | 11                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | 5.58   | +0.17                      | 1.30                  | .....                                | 11                 | 16                 | 5          | 9                          | SW.                 | M. Thompson.                             |
| Edlington                             | Florence     | 106             | 12                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | 11.17  | +6.36                      | 3.02                  | .....                                | 8                  | 20                 | 4          | 6                          | SW.                 | H. B. McCall.                            |
| Florence                              | Florence     | 136             | 16                      | 76.9                               | -2.1                       | 98       | 4     | 51      | 14                    | 31                    | 7.06   | +1.52                      | 2.43                  | .....                                | 8                  | 17                 | 5          | 8                          | SW.                 | H. K. Gilbert.                           |
| Gaffney                               | Cherokee     | 893             | 8                       | 76.9                               | .....                      | 100      | 5     | 54      | 15                    | 38                    | 6.32   | +1.74                      | 1.46                  | .....                                | 12                 | .....              | .....      | .....                      | .....               | B. F. Camp.                              |
| Georgetown                            | Georgetown   | 12              | 11                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | .....  | .....                      | .....                 | .....                                | .....              | .....              | .....      | .....                      | .....               | Reid Whitford.                           |
| Gillisonville                         | Hampton      | 50              | 9                       | 76.7                               | 3.2                        | 95       | *3    | 56      | 17                    | 32                    | 4.35   | -0.96                      | 1.17                  | .....                                | 7                  | 21                 | 4          | 5                          | SE.                 | Sam P. Sallus.                           |
| Greenville                            | Greenville   | 989             | 12                      | 72.0                               | -2.1                       | 92       | 5     | 51      | 15                    | 29                    | 3.59   | -1.75                      | 0.82                  | .....                                | 10                 | 22                 | 0          | 8                          | NW.                 | Mrs. S. A. Crittenden.                   |
| Greenwood +                           | Greenwood    | 671             | 16                      | 77.4                               | -1.2                       | 96       | *4    | 55      | *12                   | 32                    | 1.86   | -2.27                      | 0.61                  | .....                                | 5                  | 22                 | 0          | 8                          | W.                  | M. M. Calhoun.                           |
| Heath Springs                         | Lancaster    | .....           | 3                       | 75.6                               | .....                      | 98       | *6    | 48      | 14                    | 32                    | 6.28   | .....                      | 2.02                  | .....                                | 8                  | 18                 | 4          | 8                          | SW.                 | J. A. Weaner.                            |
| Kingstree (1)                         | Williamsburg | 54              | 10                      | 75.6                               | 3.0                        | 93       | 22    | 55      | *14                   | 28                    | 2.38   | -2.66                      | 1.08                  | .....                                | 7                  | 18                 | 5          | 7                          | .....               | J. A. Scott.                             |
| Kingstree (2)                         | .....        | 54              | 10                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | 2.46   | -2.60                      | 1.20                  | .....                                | 7                  | 19                 | 2          | 9                          | SW.                 | A. O. Matthews.                          |
| Liberty                               | Pickens      | 900             | 10                      | 76.5                               | -0.7                       | 98       | *5    | 55      | *12                   | 38                    | 4.27   | -0.72                      | 1.67                  | .....                                | 7                  | 17                 | 13         | 0                          | SW.                 | Jno. T. Boggs.                           |
| +Little Mountain                      | Newberry     | 711             | 11                      | 77.6                               | -1.2                       | 98       | *1    | 51      | 14                    | 31                    | 2.12   | -2.35                      | 0.46                  | .....                                | 7                  | 15                 | 10         | 5                          | W.                  | John M. Sease, M. D.                     |
| Lugoff                                | Kershaw      | 168             | 3                       | 76.8                               | .....                      | 100      | 5     | 51      | 14                    | 31                    | 5.36   | .....                      | 2.53                  | .....                                | 8                  | 18                 | 6          | 6                          | W.                  | W. J. Burdell, M. D.                     |
| Newberry                              | Newberry     | 502             | 0                       | 78.2                               | +0.8                       | 99       | *5    | 51      | 15                    | 37                    | 1.47   | -2.67                      | 0.50                  | .....                                | 8                  | 14                 | 11         | 5                          | W.                  | W. G. Peterson.                          |
| +Pinopolis                            | Berkeley     | 54              | 11                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | .....  | .....                      | .....                 | .....                                | .....              | .....              | .....      | .....                      | .....               | E. P. Ravenel.                           |
| St. Georges                           | Dorchester   | 109             | 16                      | 77.2                               | -1.0                       | 92       | *2    | 56      | *14                   | 31                    | 2.86   | -2.62                      | 0.84                  | .....                                | 10                 | 18                 | 6          | 6                          | .....               | W. B. Raynor.                            |
| St. Matthews                          | Orangeburg   | 269             | 10                      | 76.9                               | -2.1                       | 92       | *4    | 58      | 14                    | 29                    | 3.96   | -1.34                      | 1.05                  | .....                                | 7                  | 20                 | 3          | 7                          | .....               | J. S. Wainamaker.                        |
| St. Stephens                          | Berkeley     | 73              | 12                      | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | 3.29   | -3.02                      | 1.10                  | .....                                | 6                  | 18                 | 4          | 8                          | SW.                 | C. T. Shuler.                            |
| Saluda                                | Saluda       | 536             | 3                       | 77.3                               | .....                      | 98       | 5     | 48      | 15                    | 40                    | 2.69   | .....                      | 0.78                  | .....                                | 9                  | 22                 | 5          | 3                          | W.                  | Alvin Etheridge.                         |
| Santuc                                | Union        | 512             | 11                      | 75.8                               | -0.9                       | 99       | 5     | 48      | 15                    | 38                    | 2.72   | -1.16                      | 0.85                  | .....                                | 10                 | 19                 | 9          | 2                          | W.                  | E. W. Jeter.                             |
| Savannah, Ga.                         | Chatham      | 71              | 35                      | 77.3                               | -2.0                       | 93       | 4     | 62      | 12                    | 24                    | 4.04   | -2.57                      | 1.30                  | .....                                | 12                 | 16                 | 13         | 1                          | SW.                 | Weather Bureau.                          |
| Seivern                               | Aiken        | 482             | 3                       | 77.1                               | -1.7                       | 100      | *5    | 49      | 15                    | 41                    | 2.70   | -1.47                      | 0.60                  | .....                                | 9                  | 14                 | 8          | 8                          | SW.                 | Geo. C. Gunter.                          |
| Smiths Mills                          | Williamsburg | 62              | 9                       | .....                              | .....                      | .....    | ..... | .....   | .....                 | .....                 | 7.65   | +1.73                      | 3.55                  | .....                                | 11                 | 26                 | 0          | 4                          | W.                  | H. van Keulen.                           |
| Society Hill                          | Darlington   | 192             | 13                      | 76.9                               | -0.3                       | 94       | *4    | 55      | 13                    | 24                    | 8.76   | +3.20                      | 2.90                  | .....                                | 7                  | 18                 | 5          | 7                          | SW.                 | J. J. Lucas.                             |
| Spartanburg                           | Spartanburg  | 875             | 13                      | 75.3                               | -2.7                       | 97       | 27    | 51      | 14                    | 36                    | 4.78   | +0.44                      | 2.00                  | .....                                | 9                  | 18                 | 3          | 9                          | .....               | F. P. Robinson.                          |
| Stateburg                             | Sumter       | 500             | 27                      | 77.2                               | +0.1                       | 95       | 4     | 54      | 14                    | 30                    | 2.49   | 1.75                       | 0.55                  | .....                                | 10                 | 13                 | 9          | 8                          | SW.                 | W. W. Anderson, M. D.                    |
| Summerville                           | Dorchester   | 75              | 7                       | 75.8                               | 0.9                        | 93       | 4     | 55      | 13                    | 29                    | 2.97   | -4.90                      | 0.61                  | .....                                | 11                 | 17                 | 8          | 5                          | SW.                 | Miss L. R. Gadsden.                      |
| Sumter                                | Sumter       | 169             | 3                       | 79.0                               | .....                      | 101      | 5     | 52      | 13                    | 36                    | 1.08   | .....                      | 0.92                  | .....                                | 4                  | 21                 | 3          | 6                          | W.                  | Wm. D. Shaw.                             |
| +Trenton                              | Edgefield    | 620             | 11                      | 77.6                               | -0.1                       | 96       | *4    | 55      | *12                   | 32                    | 3.32   | -1.00                      | 0.70                  | .....                                | 8                  | 17                 | 13         | 0                          | W.                  | C. A. Long.                              |
| +Trial                                | Berkeley     | 85              | 18                      | 76.8                               | -2.7                       | 96       | 4     | 55      | 14                    | 31                    | 5.13   | -0.80                      | 1.79                  | .....                                | 13                 | 7                  | 18         | 5                          | SW.                 | Etsell Gaillard.                         |
| Walhalla                              | Oconee       | 1061            | 13                      | 73.9                               | 1.4                        | 95       | 27    | 51      | 12                    | 34                    | 4.71   | -0.21                      | 1.70                  | .....                                | 8                  | 17                 | 9          | 4                          | SW.                 | J. D. Isbell.                            |
| Walterboro                            | Colleton     | .....           | 1                       | 77.2                               | .....                      | 95       | *4    | 56      | 14                    | 33                    | 2.49   | .....                      | 0.81                  | .....                                | 8                  | 13                 | 13         | 4                          | W.                  | J. A. Westerberg.                        |
| Wilmington, N. C.                     | New Hanover  | 52              | 35                      | 75.4                               | -1.3                       | 93       | 4     | 53      | 14                    | 23                    | 3.74   | -2.96                      | 1.95                  | .....                                | 9                  | 14                 | 14         | 2                          | SW.                 | Weather Bureau.                          |
| Winnsboro                             | Fairfield    | 545             | 15                      | 77.4                               | +0.9                       | 97       | 4     | 55      | 11                    | 28                    | 1.03   | 3.12                       | 0.43                  | .....                                | 5                  | 12                 | 17         | 1                          | SW.                 | John W. Seigler.                         |
| Winthrop College                      | York         | 690             | 5                       | 76.2                               | -0.6                       | 98       | 5     | 52      | 14                    | 34                    | 2.59   | 1.98                       | 1.00                  | .....                                | 8                  | 17                 | 13         | 0                          | SW.                 | Geo. B. Green.                           |
| Yemassee                              | Beaufort     | 23              | 9                       | 77.2                               | 3.9                        | 97       | 29    | 57      | 17                    | 29                    | 2.53   | -3.06                      | 0.94                  | .....                                | 9                  | 21                 | 5          | 4                          | .....               | J. G. Hutson.                            |
| Yorkville                             | York         | 680             | 16                      | 76.6                               | -0.5                       | 98       | *5    | 54      | 14                    | 33                    | 5.87   | +0.88                      | 3.45                  | .....                                | 8                  | 7                  | 11         | 7                          | SW.                 | J. R. Schorb.                            |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 77.0                               | -1.3                       | 102      | 4     | 48      | *14                   | 41                    | 4.06   | -1.09                      | 4.00                  | .....                                | 8                  | 18                 | 7          | 5                          | SW.                 | .....                                    |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.    § Exposed not standard.    \* On other dates also.    a indicates 1 day missing. b, 2 days, etc.    † Maximum thermometer not standard.    ‡ Minimum thermometer not standard.    § Not used in the means or summary, apparently too high.



## CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

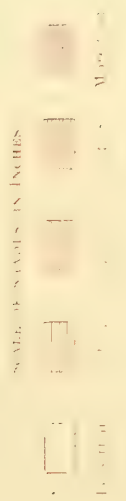
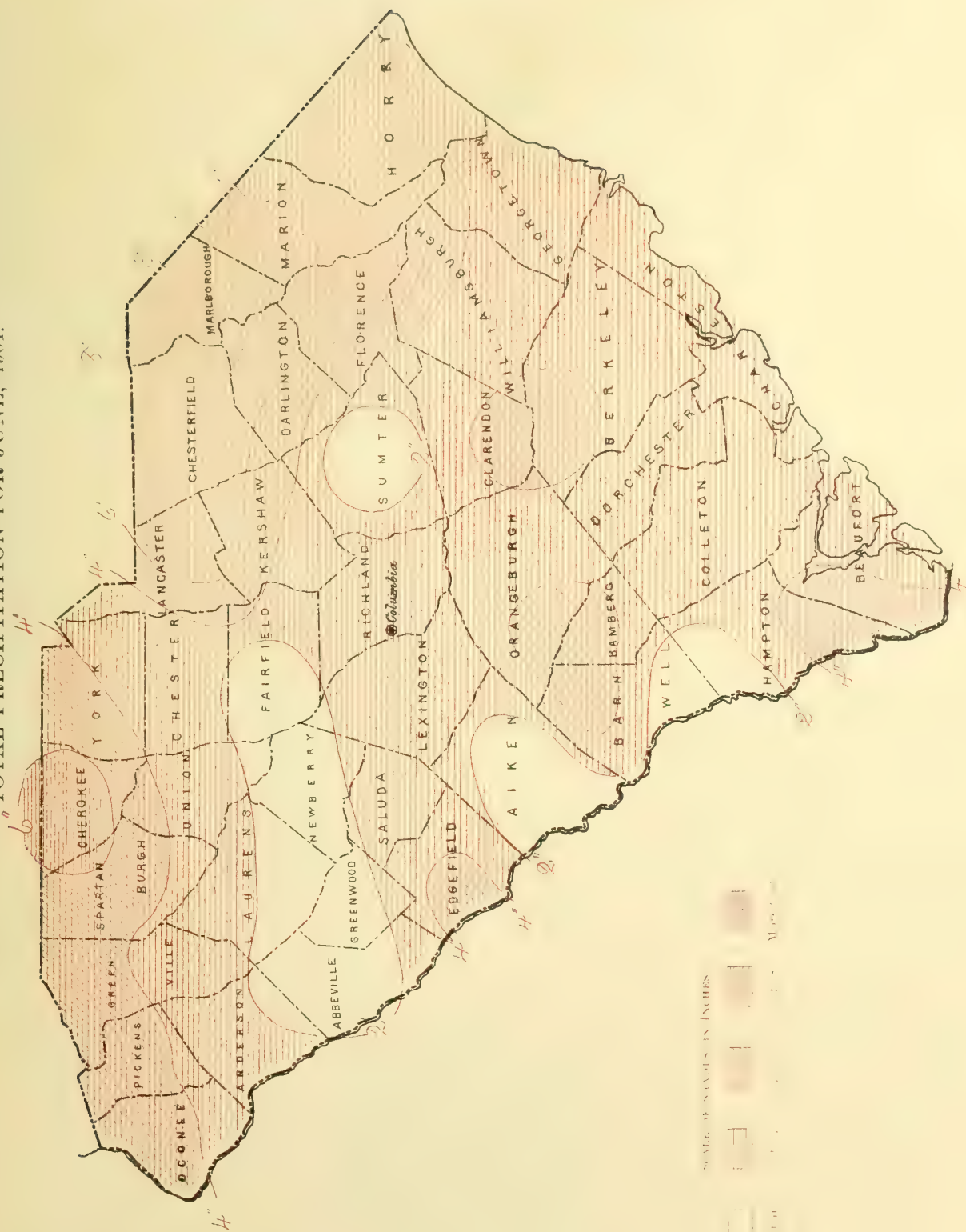
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JUNE, 1904.

[illegible]

100.      \*\*101.



# TOTAL PRECIPITATION FOR JUNE, 1904.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JUNE, 1904.

| STATIONS.         | Day of Month. |      |     |     |     |      |      |     |      |      |      |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      |      |      | Total. |      |      |
|-------------------|---------------|------|-----|-----|-----|------|------|-----|------|------|------|-----|----|-----|------|----|----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|--------|------|------|
|                   | 1             | 2    | 3   | 4   | 5   | 6    | 7    | 8   | 9    | 10   | 11   | 12  | 13 | 14  | 15   | 16 | 17 | 18  | 19   | 20   | 21   | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29   | 30   | 31   |        |      |      |
| Aiken             |               |      |     |     |     |      | .25  |     |      |      |      |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     | .30 |      |      |      | 0.55   |      |      |
| Allendale         | .15           |      |     |     |     |      |      | .20 |      |      |      |     |    |     |      |    |    |     |      |      |      | .64 |     |     |     |     |     | .28 | .15  | T.   |      | 1.42   |      |      |
| Anderson          |               |      |     |     |     |      | T.   |     |      |      | .37  |     |    |     |      |    |    |     |      | 1.64 | .12  |     |     |     |     |     |     | T.  | 1.00 |      | .80  | 3.93   |      |      |
| Augusta, Ga.      | .05           |      |     |     |     |      | .52  |     |      |      |      |     |    |     |      |    |    |     | T.   | .35  | .03  | T.  | T.  |     |     |     |     | .14 | .34  | .04  | 1.47 |        |      |      |
| Barksdale         | .06           |      |     |     |     |      | .13  |     |      |      | .27  |     |    |     |      |    |    |     | 1.06 | .29  |      |     |     |     |     |     | .06 | .13 |      | .08  |      | 2.18   |      |      |
| Batesburg         |               | .62  |     |     |     | T.   |      | .46 |      |      | .27  |     |    |     |      |    |    |     |      | .45  | .15  |     |     |     |     |     |     | T.  | .32  |      | 2.27 |        |      |      |
| Beaufort          | 1.40          | .01  |     |     |     |      | T.   | .82 |      | .46  | .03  | T.  |    |     |      |    |    |     |      |      | .37  | .02 | .12 |     |     | .01 | .37 |     | T.   | .01  | 3.62 |        |      |      |
| Bennettsville     |               |      |     |     |     |      |      |     |      |      |      |     |    | .51 | 3.00 |    |    |     |      |      |      |     |     |     |     |     |     | .25 | .34  | 4.00 | 8.13 |        |      |      |
| Blackville        |               | .04  |     |     |     |      |      | .03 |      |      | .23  |     | T. |     |      |    |    |     |      | .03  | .01  | .79 |     |     |     |     |     |     | .26  | .05  | 4.87 |        |      |      |
| Bowman            | .08           |      |     |     |     |      | .06  | .20 |      | 1.66 |      |     | T. |     |      |    |    |     |      | .07  | .17  |     |     |     |     | T.  |     | T.  | T.   | .60  | .08  | 2.90   |      |      |
| Calhoun Falls     | .56           |      |     |     |     |      |      |     |      |      |      |     |    |     |      |    |    |     |      | .18  |      |     |     |     |     |     |     | .55 |      |      | 1.29 |        |      |      |
| Camden            | .55           |      |     |     |     |      |      | .10 |      |      | 1.25 |     |    |     |      |    |    |     |      |      |      | .34 | .13 |     |     |     |     |     | .30  | .98  |      | 3.65   |      |      |
| Charleston        | .43           |      | T.  |     |     |      |      | .03 | T.   | 2.27 | .11  | .20 |    |     |      |    |    |     |      | .05  | .16  | .19 | T.  |     |     | T.  | T.  |     | .21  | .17  |      | 3.82   |      |      |
| Charlotte, N. C   | .16           |      |     |     |     | 2.12 | .46  |     |      |      | .12  |     |    |     |      |    |    | T.  | .20  | T.   | .03  | T.  | T.  |     |     |     |     |     | 1.48 | 1.56 | .29  | 6.42   |      |      |
| Cheraw(1)         | .30           | .02  |     |     |     |      | .52  |     |      |      | 1.67 | .50 |    |     |      |    |    |     |      |      |      |     | T.  |     |     |     |     |     | .30  | 1.29 | .98  | 5.58   |      |      |
| Cheraw(2)         | .41           | .03  |     |     |     |      | .58  |     |      |      | 1.42 | .67 |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     | .48  | 1.35 | 1.75 | 6.78   |      |      |
| Clark's Hill      | .29           |      |     |     |     |      | 1.18 |     |      |      |      |     |    |     |      |    |    |     | T.   | .15  | .26  | .18 |     |     |     |     |     |     |      | .20  | .11  | 4.20   |      |      |
| Clemson College   | .24           |      |     |     |     |      | 1.95 |     |      |      | .16  |     |    |     |      |    |    |     | T.   | .59  | .15  | .05 |     |     |     |     |     |     | .68  |      |      | 3.82   |      |      |
| Columbia          | .16           |      |     |     |     |      | 1.04 |     |      |      | .54  | T.  |    |     |      |    |    |     | T.   |      |      |     |     |     |     |     |     |     | T.   | .16  | 1.03 | 3.05   |      |      |
| Conway            | .80           | .35  | T.  |     |     |      |      | T.  |      |      | .80  |     | T. | T.  |      |    |    |     |      |      | .40  | .50 |     |     |     |     |     |     |      |      | 1.15 | 4.00   |      |      |
| Darlington        | .39           |      |     |     |     |      | .07  |     | 1.38 | .55  |      |     |    |     |      |    |    |     |      |      | .15  | .04 | T.  |     |     |     |     |     |      | 2.10 | .59  | 6.27   |      |      |
| Dillon            | .90           |      |     |     |     |      | .06  | .01 |      | .27  | 1.00 |     |    |     |      |    |    |     |      | .09  |      | .18 |     |     |     |     |     |     | T.   | .36  | .05  | 2.92   |      |      |
| Due West          |               |      |     |     |     |      |      |     |      |      | .54  |     |    |     |      |    |    |     |      | .26  |      | T.  |     |     |     |     |     |     | .37  | .22  | .17  | 1.56   |      |      |
| Edisto            | .66           | .23  |     |     |     |      | .80  | .10 |      | .50  |      | .52 |    |     |      |    |    |     |      |      |      | .20 | .30 |     |     | .65 |     |     |      | .32  | .30  | 5.58   |      |      |
| Effingham         | 3.02          |      | .35 |     |     |      |      | .75 |      |      | .95  | .80 |    |     |      |    |    |     |      |      | 2.30 |     | .90 |     |     |     |     |     |      | 2.10 |      | 11.17  |      |      |
| Florence          | 2.43          | .03  |     |     |     |      | .05  |     |      |      | 1.57 | .51 |    |     |      |    |    |     |      |      | .86  | .10 |     |     |     |     |     |     |      | 1.56 |      | 7.06   |      |      |
| Gaffney           | .19           | 1.46 |     |     |     |      | .40  | .50 |      |      | .95  |     |    |     |      |    |    |     |      | .36  | .98  | .05 | .28 |     |     |     |     |     | .15  | .52  | .48  | 6.32   |      |      |
| Georgetown        |               |      |     |     |     |      |      |     |      |      |      |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      |      |      |        |      |      |
| Gillisonville     | .65           |      |     |     |     |      | 1.17 | .70 |      | .47  |      |     |    |     |      |    |    |     | .80  | .10  |      | .38 | T.  | T.  |     |     |     |     |      | .46  | .52  | 4.35   |      |      |
| Greenville        |               |      |     |     |     |      | .82  | .12 |      |      | .42  |     |    |     |      |    |    |     |      | .52  | .05  |     |     |     |     |     |     |     | .46  | .65  | .02  | 3.59   |      |      |
| Greenwood         | .47           | .21  |     |     |     | T.   |      |     |      |      | .80  |     |    |     |      |    |    | .02 | 1.10 |      |      |     |     |     |     |     |     |     |      |      |      | 1.86   |      |      |
| Heath Springs     | .03           |      |     |     |     |      | 1.00 |     |      |      |      |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     | .90  | 2.02 | .41  | 6.28   |      |      |
| Kingstree(1)      | .22           | .28  |     |     |     |      | .15  |     |      |      | 1.08 | T.  |    |     |      |    |    |     |      | T.   |      | .30 | T.  |     |     |     |     |     |      | .16  |      | 2.38   |      |      |
| Kingstree(2)      | .24           | .32  |     |     |     |      | .13  |     |      |      | 1.20 |     |    |     |      |    |    |     |      | T.   |      |     | .28 | T.  |     |     |     |     |      |      |      | 2.46   |      |      |
| Liberty           | .30           |      |     |     |     | T.   | 1.67 |     |      |      | .30  |     |    |     |      |    |    |     | .30  | T.   |      | .46 | .38 |     | .20 |     |     |     |      | 1.10 | T.   | 4.27   |      |      |
| Little Mountain   |               |      |     |     |     |      | .38  |     |      |      | .13  |     |    |     |      |    |    |     |      | .04  |      |     |     |     |     |     |     |     |      | .15  | .31  | .31    | 2.12 |      |
| Lugoff            |               |      |     |     |     |      | .32  |     | 2.53 | T.   |      |     |    |     |      |    |    |     | .30  |      | .11  |     | .70 | .12 |     |     |     |     | T.   | .55  | .73  | 5.36   |      |      |
| Newberry          | .33           |      |     |     |     |      | .03  |     |      | .20  |      |     |    |     |      |    |    |     |      | .08  | .04  |     |     |     |     |     |     |     |      | .12  | .17  | .50    | 1.47 |      |
| Pinopolis         |               |      |     |     |     |      |      |     |      |      |      |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      |      |      |        |      |      |
| St. Georges       | .84           | .15  |     |     |     |      |      | .16 |      |      | .40  |     |    |     |      |    |    |     |      |      |      | .09 | .48 | .20 |     |     | .15 |     |      | .26  | .13  | 2.86   |      |      |
| St. Matthews      | 1.05          | .12  |     |     |     |      | .05  |     |      | 1.05 |      |     |    |     |      |    |    |     |      |      | .15  | .87 | .14 |     |     |     |     |     |      |      | .45  | .08    | 3.96 |      |
| St. Stephens      | .70           |      | .29 |     |     |      | 1.10 |     |      | .20  |      |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      |      | .60  |        | 3.29 |      |
| Saluda            | .31           | .06  |     |     |     |      | .06  |     |      |      |      |     |    |     |      |    |    |     |      | .01  | .78  |     |     |     |     |     |     |     |      | .62  | .52  | .17    | 2.69 |      |
| Sautuc            | .40           | .07  |     |     |     |      | .36  | .04 |      |      | .22  |     |    |     |      |    |    |     |      | .85  | .22  |     |     |     |     |     |     |     |      | .01  | .22  | T.     | 2.72 |      |
| Savannah, Ga.     | .49           | T.   |     |     |     |      | .79  | .01 | 1.30 | .26  | .02  |     |    |     |      |    |    |     |      |      |      | .31 | .25 |     |     |     |     |     |      |      |      | 4.04   |      |      |
| Seivern           | T.            | .90  |     |     |     |      | .15  |     |      |      | .02  |     |    |     |      |    |    |     |      | .86  | .26  | .15 | .15 | T.  |     |     |     |     |      | .20  | .01  | 2.70   |      |      |
| Smiths Mills      | .65           | .55  |     | .40 | .15 |      | .70  |     |      | .20  | .20  | .15 |    |     |      |    |    |     |      |      |      | .90 | T.  |     |     |     |     |     |      |      |      | 7.65   |      |      |
| Society Hill      |               |      |     |     |     |      | .14  |     | 2.00 | 1.10 |      |     |    |     |      |    |    |     |      |      | 1.24 |     |     |     |     |     |     |     |      | .82  | 2.90 | .58    | 8.78 |      |
| Spartanburg       | T.            | .52  |     |     |     |      | .60  | .10 |      | .31  |      |     |    |     |      |    |    |     |      | .45  | 2.00 |     |     |     |     |     |     |     |      | .15  | .05  | .60    | 4.78 |      |
| Stateburg         | .55           |      |     |     |     |      | .19  |     |      | .30  | .08  |     |    |     |      |    |    |     |      |      | .61  | .05 | .14 |     |     |     |     |     |      | .30  | .31  | .43    | 2.49 |      |
| Summerville       | .27           |      |     |     |     |      | .26  | .01 |      | .26  | T.   | .51 |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      |      | .36  | .14    | 2.97 |      |
| Sumter            | .09           |      |     |     |     |      |      | .07 |      |      |      |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      |      |      |        | 1.08 |      |
| Trenton           | .13           | .20  |     |     |     |      |      |     |      |      |      |     |    |     |      |    |    |     |      | .16  | .70  | .35 |     |     |     |     |     |     |      | .48  | .62  | .68    | 3.32 |      |
| Trial             | .91           |      |     |     |     |      | T.   | .22 |      | 1.79 | .02  | .01 |    |     |      |    |    |     |      |      | .26  | .02 | .11 | .10 | .86 | .60 | T.  | T.  |      |      | .08  | .15    | 5.13 |      |
| Walhalla          | .10           |      |     |     |     |      | .45  |     |      |      |      |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      |      |      |        | 4.71 |      |
| Walterboro        | .61           |      |     |     |     |      | .19  | .81 |      | .39  |      | .01 |    |     |      |    |    |     |      |      |      | .19 |     |     |     |     |     |     |      |      |      |        | 2.49 |      |
| Wilmington, N. C. | .19           | .01  |     | .20 |     |      | .03  |     |      | .11  | 1.18 | .07 |    |     |      |    |    |     | .05  | .15  |      | T.  | T.  | T.  |     |     |     |     |      |      |      |        | 3.74 |      |
| Winnboro          | .10           |      |     |     |     |      | .43  |     |      |      | T.   |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      | T.   | .30  |        | 1.03 |      |
| Winthrop College  | .30           | .03  |     |     |     |      | .12  |     |      |      | .21  |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      |      | .19  | .16    | .65  | 2.59 |
| Yemassee          | .11           | .94  |     |     |     |      |      | .23 | .80  |      | .21  |     |    |     |      |    |    |     |      | .87  | .50  |     | .05 |     | .03 |     | .08 | T.  |      | T.   | .07  | .06    | 2.53 |      |
| Yorkville         | .25           |      |     |     |     |      | T.   |     |      |      | .17  |     |    |     |      |    |    |     |      |      |      |     |     |     |     |     |     |     |      | .22  | 3.45 | .36    | 5.87 |      |

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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BY

J. W. BAUER,

SECTION DIRECTOR.



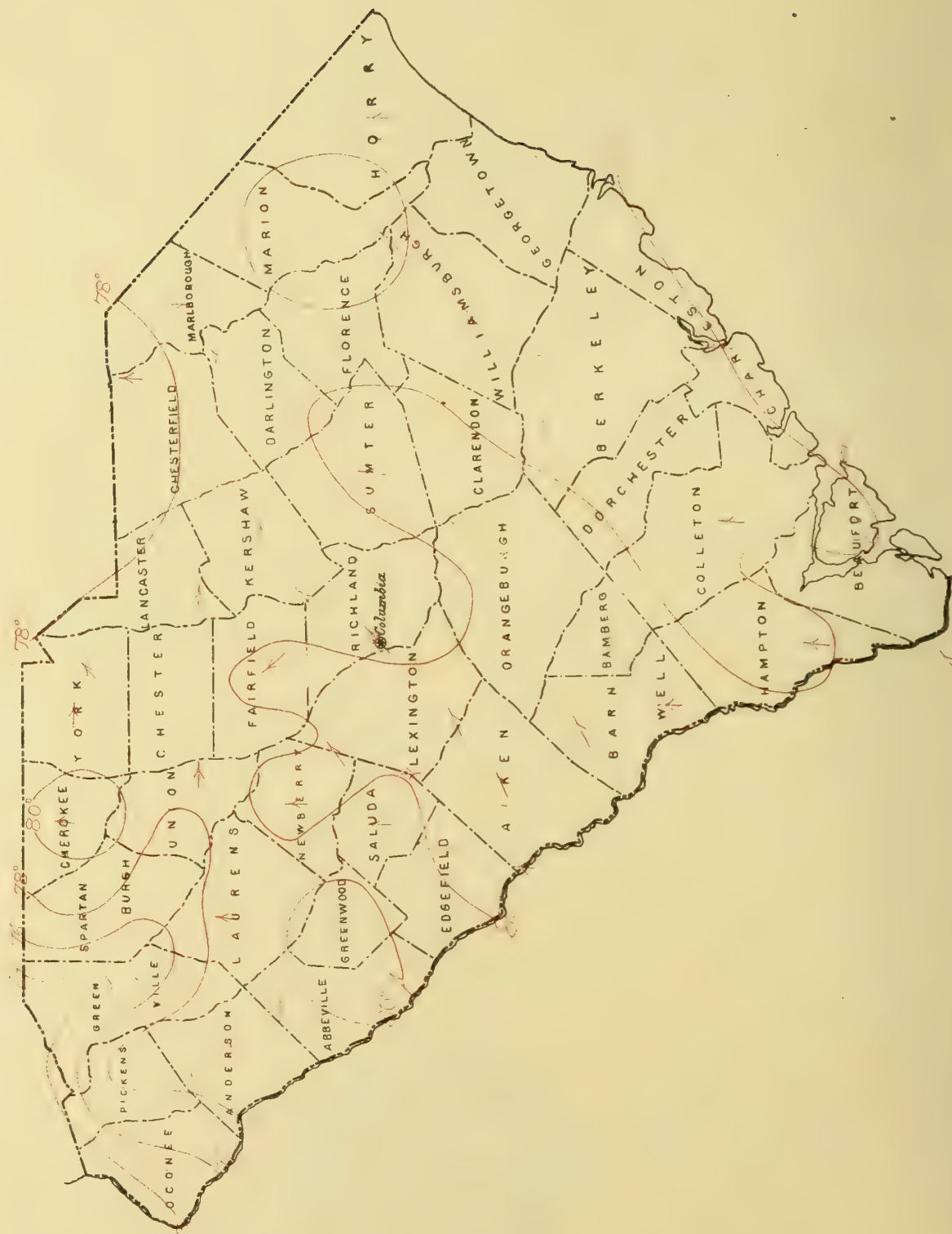
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

AUGUST 25, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JULY, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.  
**CLIMATE AND CROP SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.

**SOUTH CAROLINA SECTION.**  
**J. W. BAUER, Section Director,**  
COLUMBIA, S. C.

**VOL. VII.      COLUMBIA, S. C., JULY, 1904.      No. 7.**

**PROGRESS OF FARM WORK.**

The temperature conditions during July were nearly normal, although there were marked variations from the 19th to the 21st, when maximum temperatures of from 95° to 105° occurred over practically the entire State, and from the 24th to the 26th when the night temperatures were unusually low; each period was of too short duration to materially affect the growth or development of crops.

The precipitation was copious, and slightly in excess of the normal for July, except over small areas in the Savannah valley counties, where marked deficiencies occurred. Excessive precipitation over small areas in the eastern counties, injured bottom land crops locally, but, on the whole, the rainfall was well distributed and proved beneficial. Thunderstorms occurred on every day but one, and precipitation was recorded at some point on every day save one, although the two dates were not the same. There were numerous hail storms, and local high winds, but neither damaged crops to a material extent.

Too much rain in the eastern counties interfered somewhat with laying by crops, nevertheless fields were, as a rule, well cultivated and clean when finally laid by. Cultivation was practicable in the central and western counties during the greater part of the month, and crops were laid by in excellent condition.

While early corn was injured by drought in a few western counties, in most sections the corn crop improved steadily and became most promising. Late planting suffered less, and improved steadily.

The weather was generally favorable for cotton, which was thrifty, fruited heavily, and maintained a healthy, vigorous growth throughout the month. The plants were unusually free from disease, and from injurious insects, although boll worms appeared in a few localities, and, late in the month, rust and blight developed on light, sandy lands. The favorable conditions included the sea-island variety.

Tobacco developed into a very fine quality of leaf; curing operations made rapid progress. Rice improved, though not as rapidly as desirable owing to the scarcity of water for harvest flooding, but by the close of the month plenty of fresh water was available, and the crop improved rapidly. A large

and fine crop of watermelons was marketed. Peach shipments, which were heavy early in the month, gradually declined; late varieties of pears, plums, peaches and figs were plentiful; apples were scarce. Peas were sown extensively and came up to good stands. The weather was, on the whole, favorable for minor crops, gardens and pastures, having been better at the close than at the beginning of the month. Fall Irish potatoes and truck generally were planted extensively.

**Barometer and Wind Table for July, 1904.**

| STATIONS               | BAROMETER |         |       |        |       | WIND.           |                |                   |            |       |
|------------------------|-----------|---------|-------|--------|-------|-----------------|----------------|-------------------|------------|-------|
|                        | Mean      | Highest | Date. | Lowest | Date. | Total movement. | Average hourly | Maximum velocity. |            |       |
|                        |           |         |       |        |       |                 |                | Miles             | Direction. | Date. |
| Augusta, Ga. ....      | 30.00     | 30.21   | 1     | 29.75  | 12    | 3,889           | 5.2            | 45                | se.        | 21    |
| Charleston, .....      | 30.07     | 30.24   | 4     | 29.78  | 12    | 6,515           | 8.8            | 45                | s.         | 2     |
| Charlotte, N. C. ....  | 30.06     | 30.26   | 3     | 29.73  | 12    | 3,544           | 4.8            | 36                | s.         | 16    |
| Columbia, .....        | 30.04     | 30.23   | 1     | 29.73  | 12    | 5,235           | 7.0            | 49                | w.         | 7     |
| Savannah, Ga. ....     | 30.07     | 30.23   | 4     | 29.81  | 12    | 5,211           | 7.0            | 36                | w.         | 22    |
| Wilmington, N. C. .... | 30.03     | 30.23   | 4     | 29.71  | 12    | 5,053           | 6.8            | 30                | w.         | 12    |
| Averages.....          | 30.06     | 30.26   | 3     | 29.71  | 12    | 4,908           | 6.6            | 45                | se.*       | 21*   |

\* S on 2.

**CLIMATOLOGY FOR THE MONTH.**

**Temperature, in Degrees Fahrenheit.**

The mean temperature for July, 1904, was 79.4°, which is 0.5° below normal. The highest local mean was 81.1° at Sumter; the lowest 74.6° at Greenville. The monthly extremes were a maximum of 105° at Sumter on 7th, Gaffney on the 19th, and Aiken and Seivern on the 20th, and a minimum of 50° at Walhalla on the 24th, making the State range 55°. The greatest local monthly range was 49° at Gaffney and Seivern, the least was 27° at Georgetown. The mean of the daily maximum temperatures was 90.5°, and of the daily minima was 68.4°, making the average daily range 22.1°.

**Precipitation, in Inches.**

The precipitation averaged 5.96 inches, which is 0.71 above normal. The greatest local amount was 14.38 at Cheraw (1), the least was 1.44 at Clemson College. The greatest 24 hour fall was 6.50 at Cheraw (1) on the 23rd. The average number of days with 0.01, or more, precipitation was 12, ranging from 5 at Greenwood and Trenton to 17 at Darlington and Walterboro.

Hail.—Barksdale, 17, 27; Cheraw, Lugoff, 7; Columbia, 6, 25; Dillon, 2; Kingstree, 8; Newberry, Saluda, Walhalla, 25; Santuc, 17; Society Hill, 6; Trial, 25, 29, 30, 31; Yorkville, 21.

Excessive Precipitation.—Aiken, 31st, 2.30 in 3 hrs.; Allendale, 1st, 1.00 in 1 hr.; Barksdale, 27th, 4.31 in 24 hrs., 28th, 3.20 in 24 hrs.; Batesburg, 26th, 1.46 in 1 hr.; Cheraw, 8th, 1.49 in 1 hr., 23rd, 6.50 in about 9 hrs.; Gaffney, 22nd, 1.32 in 50 mins.; Lugoff, 23, 4.74 in 24 hrs.; Newberry, 16th, 1.60 in 1 hr., 23rd, 2.62 in 12 hrs.; Pinopolis, 24th, 2.67 in 24 hrs.; St. Matthews, 22nd, 2.30 in 3 hrs.; St. Stephens, 5-6th, 2.68 in 24 hrs.; Sumter, 29th, 2.01 in 1 hr., 25 mins.; Trial, 16th, 2.81 in 5 hrs., 45 mins.



Weather.—The average number of clear days was 13, of partly cloudy 12, and of cloudy ones 6.

Winds.—The prevailing direction of the wind was from the southwest at 22 stations, from the south at 16, from the west at 9, and from the north at 2, and from the northeast and southeast at 1 station each.

High Winds.—Charleston, 2; Cheraw, 12; Columbia, 7, 25, 27; Gillisonville, 21, 23; Liberty, 1, 5, 6, 16; Lugoff, 6, 8; Santuc, 16; Society Hill, 5.

#### MISCELLANEOUS PHENOMENA (with dates).

Lunar Halos.—Charleston, 26, 27, 28.

Solar Halos.—Charleston, 2, 12, 18, 27, 29.

Fogs, Dense.—Blackville, 15, 30; Charleston, 27; Columbia, 31; Clemson College, 26; Gillisonville, 14; Heath Springs, 30, 31; Liberty, 9, 10; Little Mountain, Lugoff, 15; Seivern, 1, 15, 30, 31; Trial, 14, 15; Yorkville, 1, 31; Dillon, 4, 5, 30, 31.

Thunderstorms.—Barksdale, 8, 9, 12; Batesburg, 1, 22, 23, 24, 26, 28, 29; Beaufort, 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, 17, 20, 21, 22, 23, 24, 25, 28, 29, 30, 31; Bennettsville, 21; Blackville, 6, 8, 9, 12, 16, 21, 22, 23, 25, 28, 29, 31; Camden, 7, 21; Cheraw, 1, 2, 5, 6, 7, 8, 9, 11, 12, 13, 16, 17, 20, 21, 22, 23, 28, 29; Clemson College, 9, 12; Darlington, 16, 20, 23, 29; Dillon, 2, 6, 7, 16, 20, 21, 28, 29; Due West, 31; Florence, 7, 29; Georgetown, 12, 28; Gillisonville, 4, 5, 6, 7, 8, 9, 10, 12, 20, 21, 22, 23, 24, 28, 29, 30; Greenville, 16, 21; Heath Springs, 12; Liberty, 8, 9, 10, 11, 15, 16, 17, 21, 22, 24, 25, 28, 29, 30, 31; Little Mountain, 21, 23, 25, 28; Lugoff, 7, 8, 9, 10, 16, 17, 20, 21, 22, 30; Newberry, 12, 16, 21, 23, 25, 27, 28, 30; Saluda, 8, 12, 16, 19, 20, 21, 22, 23, 25, 27, 28; Santuc, 7, 11, 12, 16, 17, 20, 21, 24, 25, 26; Seivern, 9, 12, 13, 17, 21, 22, 24, 26, 29; Society Hill, 5, 6, 7, 8, 16, 17, 21, 22, 23, 24, 25, 28, 29; Summerville, 6, 7, 12, 17, 18, 22, 23, 25, 31; Sumter, 29; Trenton, 6, 7, 8, 11, 16, 20, 21, 23, 27; Trial, 7, 8, 12, 14, 16, 20, 21, 22, 23; Walhalla, 8, 17, 20, 21, 31; Walterboro, 5, 6, 8, 10, 12, 17, 20, 21, 22, 23, 25, 26, 30, 31; Winthrop College, 1, 5, 7, 8, 10, 11, 12, 14, 21, 22, 23, 27, 28, 29, 30; Yorkville, 11, 12, 21, 28, 29.

There was a total of 252 thunderstorms reported, on 30 dates as follows: 4 on the 1st, 3 on the 2nd, 2 on the 4th, 6 on the 5th, 9 on the 6th, 13 on the 7th, 14 on the 8th, 9 on the 9th, 6 on the 10th, 7 on the 11th, 17 on the 12th, 2 each on the 13th-14th, 1 on the 15th, 15 on the 16th, 10 on the 17th, 1 each on the 18th-19th, 12 on the 20th, 22 on the 21st, 13 on the 22nd, 15 on the 23rd, 7 on the 24th, 10 on the 25th, 4 each on the 26th-27th, 15 on the 28th, 14 on the 29th, 6 on the 30th, 8 on the 31st.

In addition to the above, Charleston reported storms on the 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 20, 21, 22, 23, 24, 26, 28, 29, 30, 31; Columbia on the 5, 6, 7, 8, 10, 12, 16, 17, 20, 21, 22, 23, 25, 27, 28, 31.

Corrections.—In the June, 1904, number of the Monthly Report, page 5, Blackville, minimum temperature, 13th and other dates, should be 14th and other date; Little Mountain, mean temperature 77.6° should be 77.4°; Seivern, maximum temperature on 5th and other dates, should be 4th and other dates; on page 6, Little Mountain, mean maximum 89.7° should be 89.4°.

#### REMARKS BY OBSERVERS.

ANDERSON.—Cotton remained small but is well fruited; upland corn not promising; some sections of county had good rains, others had very little. BARKSDALE.—The month

was hot and dry until the 27th, and crops suffered, after which there were heavy, beneficial rains and crops improved. BATESBURG.—Drought did considerable damage during the first part of the month, particularly to corn; fine rains the latter part improved all crops, especially such as were planted late. BEAUFORT.—Mean temperature 2.0° below normal; precipitation 0.94 inch above; caterpillars appeared in several places, and cotton rusted in spots; dry, sunny weather was greatly needed by the close of the month; sweet potatoes and peas were planted to the end of the month. BENNETTSVILLE.—All crops were laid by at the end of the month; cotton began to shed. CLARKS HILL.—Excessive rains caused cotton to shed, but the rains were beneficial on late corn, pastures and grass for hay; crops have become somewhat grassy, and the ground was too wet to give them their last plowing. DARLINGTON.—The continued wet weather will probably damage cotton. DILLON.—July weather was more seasonable than any since March. GILLISONVILLE.—Month cool and wet, conditions beneficial to crops, especially corn and cotton, which improved very much, and were in excellent condition at close of the month; gardens and minor crops suffered. HEATH SPRINGS.—Old corn nearly matured, young corn promising; cotton became somewhat affected by a blight-like rust; fruit and vegetables were plentiful. LIBERTY.—Crop conditions generally fair to good; some sections suffered for moisture, and old corn "fired"; cotton fruited nicely, some fields are grassy, having been laid by too soon. LITTLE MOUNTAIN.—The rains came too late for early planted corn; other crops are better than for many years. NEWBERRY.—The rainfall was sufficient for all crops, and they made fine progress, giving promise of good yields. SOCIETY HILL.—Too much rain for cotton; corn, sweet potatoes, peas and pea forage are very promising. SUMMERVILLE.—The last half of the month was very rainy; in the last ten days there were 6.28 inches, which was too much for the best development of crops. SUMTER.—The rainfall on the 29th was the heaviest rain in years (2.01 in 35 minutes). TRENTON.—Precipitation 1.52 inches less than normal for July, and is 11.85 inches less than the average for the first 7 months of the year.

#### OSCILLATIONS OF CLIMATE.

The discovery that climatic elements are subject to certain oscillations, first remaining for a time above the mean derived from many years observations, and then again falling below this mean, has already led to many investigations which have been undertaken with a view to determine whether or not these oscillations occur with some regularity, in definite cycles. The problem, therefore, involves the determination of the length of the period and the amplitude of these oscillations. Such an investigation may be taken up from two different points of view. On one hand we may assume a period of a given length, which is determined by certain physical considerations, and we may try to discover whether the successive occurrences of the various phenomena in question actually show the existence of such a period. On the other hand, we may start without any definite period in mind, and may try to discover the unknown length of the period by different combinations of the successive values of one meteorological element. The first method mentioned is the one usually employed, because it naturally forces itself on the inquiring mind. Thus, from the very earliest times, persons have tried to prove that the moon's phases, and especially the varying position of the moon with reference to the earth, correspond to certain changes in the meteorological elements, but, as is well known, none of these attempts has yet led to any noteworthy result.—*Handbook of Climatology, Hann.*



CLIMATOLOGICAL DATA FOR THE MONTH OF JULY, 1904.

| STATIONS.                             | Counties.    | Elevation, feet. | Length of record, years. | Temperature in degrees Fahrenheit. |                            |          |       |         | Precipitation in inches. |                       |        |                            |                     | Sky.                       |                 |                       |                       |                        | Observers.     |                               |
|---------------------------------------|--------------|------------------|--------------------------|------------------------------------|----------------------------|----------|-------|---------|--------------------------|-----------------------|--------|----------------------------|---------------------|----------------------------|-----------------|-----------------------|-----------------------|------------------------|----------------|-------------------------------|
|                                       |              |                  |                          | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date.                    | Greatest daily range. | Total. | Departure from the normal. | Greatest in inches. | Total snowfall, in inches. | Number of days. | Number of clear days. | Number of foggy days. | Number of cloudy days. |                | Prevalence of wind, of which. |
| Aiken                                 | Aiken        | 505              | 3                        | 81.4                               | +0.3                       | 105      | 20    | 50      | 28                       | 36                    | 4.70   | -0.15                      | 2.00                |                            | 6               | 14                    | 12                    | 5                      | SW             | C. E. Carmen.                 |
| Alhendale                             | Barnwell     | 186              | 16                       | 81.5                               | +0.7                       | 100      | 20    | 63      | 26                       | 28                    | 7.02   | +1.31                      | 1.00                |                            | 12              | 26                    | 0                     | 11                     | SW             | C. A. Glover.                 |
| Anderson                              | Anderson     | 764              | 3                        | 79.4                               | +1.3                       | 103      | 20    | 57      | 26                       | 33                    | 2.55   | -2.29                      | 1.30                |                            | 6               | 16                    | 14                    | 1                      | W              | R. B. Dean.                   |
| Augusta, Ga.                          | Richmond     | 131              | 33                       | 81.2                               | -0.1                       | 97       | 20    | 61      | 25                       | 30                    | 3.23   | -2.03                      | 1.24                |                            | 9               | 11                    | 16                    | 1                      | SW             | Weather Bureau.               |
| Barksdale                             | Laurens      | 780              | 3                        | 79.8                               |                            | 101      | 20    | 58      | 26                       | 32                    | 9.51   |                            | 4.31                |                            | 11              | 17                    | 14                    | 0                      | SW             | J. T. Garrett.                |
| Batesburg                             | Lexington    | 650              | 16                       | 78.9                               | +1.0                       | 99       | 20    | 57      | 20                       | 31                    | 3.65   | -2.69                      | 1.16                |                            | 10              | 17                    | 9                     | 5                      | W              | E. J. Hite.                   |
| Beaufort                              | Beaufort     | 28               | 18                       | 80.0                               | -2.0                       | 91       | 20    | 66      | 26                       | 21                    | 6.67   | +0.94                      | 1.97                |                            | 13              | 13                    | 17                    | 1                      | W              | S. M. Bonham.                 |
| Bennettsville                         | Marlboro     | 160              | 3                        | 79.8                               |                            | 96       | 18    | 68      | 26                       | 20                    | 7.46   |                            | 1.75                |                            | 14              | 11                    | 16                    | 4                      | W              | Jno. L. McCall.               |
| Blackville                            | Barnwell     | 266              | 16                       | 81.6                               | +0.2                       | 104      | 20    | 61      | 26                       | 34                    | 1.67   | -4.06                      | 0.64                |                            | 12              | 12                    | 18                    | 0                      | SW             | G. D. C. Lange.               |
| Bowman                                | Orangeburg   | 160              | 3                        | 80.0                               |                            | 102      | 20    | 61      | 26                       | 35                    | 4.01   |                            | 0.98                |                            | 10              | 12                    | 18                    | 1                      | SW             | B. O. Evans.                  |
| Calhoun Falls                         | Abbeville    | 508              | 11                       |                                    |                            |          |       |         |                          |                       | 3.92   | -0.63                      | 0.97                |                            | 7               | 26                    | 0                     | 5                      | SW             | P. J. Pfeiffer.               |
| Canden                                | Kershaw      | 222              | 38                       |                                    |                            |          |       |         |                          |                       | 6.51   | +1.47                      | 2.50                |                            | 8               | 18                    | 7                     | 6                      | SW             | J. C. Whitaker.               |
| Charleston                            | Charleston   | 48               | 35                       | 80.1                               | -1.7                       | 95       | 20    | 67      | 26                       | 21                    | 6.36   | -1.23                      | 2.23                |                            | 14              | 3                     | 22                    | 6                      | SW             | Weather Bureau.               |
| Charlotte, N. C.                      | Mecklenburg  | 808              | 26                       | 77.6                               | -0.6                       | 98       | 10    | 66      | 26                       | 25                    | 6.20   | +0.66                      | 1.80                |                            | 17              | 0                     | 18                    | 4                      | SW             | Weather Bureau.               |
| Cheraw (1)                            | Chesterfield | 114              | 16                       | 77.8                               | -2.7                       | 95       | 20    | 62      | 26                       | 23                    | 11.38  | +7.83                      | 6.50                |                            | 16              | 10                    | 7                     | 11                     | SW             | W. R. Godfrey.                |
| Cheraw (2)                            |              | 144              | 11                       |                                    |                            |          |       |         |                          |                       | 12.02  | +5.60                      |                     |                            | 11              | 17                    | 10                    | 1                      | SW             | Jno. H. Powe.                 |
| Charles Hill                          | Edgefield    | 450              | 2                        | 79.7                               |                            | 98       | 19    | 58      | 26                       | 20                    | 6.51   |                            | 1.55                |                            | 10              | 3                     | 10                    | 18                     | SW             | Wm. S. Middleton.             |
| Clemson College                       | Oconee       | 850              | 13                       | 77.4                               | -1.6                       | 101      | 20    | 51      | 26                       | 36                    | 1.14   | -3.77                      | 0.61                |                            | 8               | 17                    | 9                     | 1                      | W              | Prof. C. C. Newman.           |
| Columbia                              | Richland     | 351              | 17                       | 79.4                               | -1.2                       | 98       | 20    | 62      | 25                       | 25                    | 3.21   | -2.39                      | 1.25                |                            | 16              | 6                     | 15                    | 10                     | SW             | Central Office.               |
| Conway                                | Horry        | 25               | 13                       | 79.7                               |                            | 98       | 20    | 64      | 26                       | 27                    | 8.77   | +1.92                      | 1.80                |                            | 12              | 25                    | 2                     | 1                      | SW             | Meq. Quattlebaum.             |
| Darlington                            | Darlington   | 175              | 9                        | 79.6                               |                            | 101      | 20    | 61      | 26                       | 30                    | 5.84   | +0.40                      | 1.95                |                            | 17              | 11                    | 11                    | 9                      | SW             | E. E. Melver.                 |
| Dillon                                | Marion       | 100              | 0                        | 80.1                               |                            | 103      | 20    | 63      | 26                       | 33                    | 4.66   |                            | 1.38                |                            | 15              |                       |                       |                        | SW             | A. E. Rowell.                 |
| Due West                              | Abbeville    | 710              | 3                        | 79.4                               |                            | 96       | 19    | 60      | 26                       | 25                    | 2.00   |                            | 0.54                |                            | 9               | 14                    | 11                    | 6                      | W              | Rev. O. Y. Bonner.            |
| Edisto                                | Bamberg      | 127              | 11                       |                                    |                            |          |       |         |                          |                       | 5.27   | +0.29                      | 1.10                |                            | 10              | 14                    | 11                    | 6                      | SW             | M. Thompson.                  |
| Edlingham                             | Florence     | 106              | 12                       |                                    |                            |          |       |         |                          |                       | 3.81   | -0.83                      | 0.98                |                            | 8               | 18                    | 10                    | 3                      | SW             | H. B. McCall.                 |
| Florence                              | Florence     | 136              | 16                       | 79.7                               | -1.6                       | 100      | 20    | 61      | 26                       | 20                    | 5.30   | -0.06                      | 1.30                |                            | 13              | 14                    | 5                     | 12                     | SW             | H. K. Gilbert.                |
| Gaffney                               | Cherokee     | 893              | 8                        | 80.1                               |                            | 105      | 19    | 56      | 26                       | 37                    | 3.04   | -1.42                      | 1.32                |                            | 11              |                       |                       |                        | SW             | B. E. Camp.                   |
| Georgetown                            | Georgetown   | 12               | 11                       | 79.3                               | -1.2                       | 95       | 20    | 68      | 25                       | 15                    |        |                            |                     |                            | 10              | 2                     | 8                     | SW                     | Reid Whitford. |                               |
| Gillisonville                         | Hampton      | 50               | 0                        | 79.8                               | -1.6                       | 102      | 20    | 63      | 26                       | 32                    | 4.28   | -1.12                      | 1.08                |                            | 8               | 13                    | 10                    | 8                      | SW             | Sam. L. Salfus.               |
| Greenville                            | Greenville   | 989              | 12                       | 71.6                               | -1.8                       | 97       | 20    | 51      | 26                       | 30                    | 2.15   | -3.51                      | 0.65                |                            | 8               | 22                    | 3                     | 6                      | SW             | Mrs. S. A. Crittenden.        |
| Greenwood                             | Greenwood    | 671              | 16                       | 80.5                               | +0.5                       | 101      | 19    | 60      | 26                       | 29                    | 3.31   | -1.61                      | 1.30                |                            | 5               | 23                    | 0                     | 8                      | W              | M. M. Calhoun.                |
| Heath Springs                         | Lancaster    | 13               | 3                        | 79.5                               |                            | 101      | 20    | 62      | 24                       | 28                    | 3.92   |                            | 0.77                |                            | 16              | 17                    | 3                     | 11                     | W              | J. A. Weaver.                 |
| Kingstree (1)                         | Williamsburg | 54               | 10                       | 79.4                               | -1.2                       | 100      | 20    | 63      | 26                       | 33                    | 7.62   | +1.50                      | 1.35                |                            | 13              | 18                    | 9                     | 4                      | SW             | J. A. Scott.                  |
| Kingstree (2)                         |              | 54               | 10                       |                                    |                            |          |       |         |                          |                       | 7.15   | +1.71                      | 1.40                |                            | 12              | 17                    | 11                    | 3                      | SW             | A. O. Matthews.               |
| Liberty                               | Pickens      | 900              | 10                       | 79.0                               | -0.0                       | 100      | 20    | 56      | 26                       | 34                    | 3.95   | -1.74                      | 1.50                |                            | 6               | 19                    | 11                    | 1                      | SW             | Jno. T. Boggs.                |
| Little Mountain                       | Newberry     | 711              | 11                       | 80.0                               | -0.5                       | 104      | 20    | 59      | 26                       | 31                    | 3.74   | -1.67                      | 1.05                |                            | 11              | 14                    | 15                    | 2                      | SW             | John M. Sease, M. D.          |
| Lugoff                                | Kershaw      | 168              | 3                        | 79.2                               |                            | 104      | 19    | 57      | 24                       | 30                    | 9.12   |                            | 1.74                |                            | 9               | 9                     | 14                    | 8                      | W              | W. J. Burdell, M. D.          |
| Newberry                              | Newberry     | 502              | 0                        | 80.8                               | +1.2                       | 102      | 19    | 58      | 26                       | 35                    | 5.06   | -0.02                      | 2.62                |                            | 9               | 11                    | 14                    | 6                      | SW             | W. G. Peterson.               |
| Pinopolis                             | Berkeley     | 54               | 11                       | 77.5                               | -1.2                       | 94       | 20    | 66      | 26                       | 16                    | 8.15   | +2.40                      | 2.67                |                            | 16              | 6                     | 15                    | 10                     | SW             | E. P. Ravenel.                |
| St. Georges                           | Dorchester   | 109              | 16                       | 80.4                               | -0.0                       | 99       | 20    | 62      | 26                       | 27                    | 4.42   | -1.62                      | 1.01                |                            | 13              | 18                    | 6                     | 7                      | SW             | W. B. Raynor.                 |
| St. Matthews                          | Orangeburg   | 269              | 16                       | 79.9                               | -0.5                       | 94       | 20    | 64      | 26                       | 23                    | 1.20   | -2.38                      | 2.30                |                            | 9               | 20                    | 5                     | 6                      | SW             | J. S. Wannamaker.             |
| St. Stephens                          | Berkeley     | 73               | 12                       |                                    |                            |          |       |         |                          |                       | 12.75  | +6.86                      | 2.68                |                            | 17              | 17                    | 5                     | 9                      | SW             | C. T. Shuler.                 |
| Saluda                                | Saluda       | 536              | 3                        | 79.6                               |                            | 103      | 20    | 56      | 26                       | 34                    | 3.94   |                            | 0.64                |                            | 15              | 18                    | 11                    | 2                      | SW             | Alvin Etheridge.              |
| Santee                                | Union        | 512              | 11                       | 78.3                               | -0.5                       | 100      | 20    | 56      | 26                       | 37                    | 7.13   | +2.04                      | 1.70                |                            | 14              | 12                    | 18                    | 1                      | W              | E. W. Jeter.                  |
| Savannah, Ga.                         | Chatham      | 71               | 35                       | 80.4                               | -1.5                       | 97       | 20    | 68      | 13                       | 24                    | 13.14  | +7.33                      | 6.43                |                            | 14              | 9                     | 18                    | 4                      | SW             | Weather Bureau.               |
| Seivern                               | Aiken        | 482              | 3                        | 80.6                               | +0.7                       | 105      | 20    | 56      | 26                       | 36                    | 6.72   | +2.37                      | 1.48                |                            | 12              | 9                     | 16                    | 6                      | SW             | Geo. C. Gunter.               |
| Smiths Mills                          | Williamsburg | 62               | 9                        |                                    |                            |          |       |         |                          |                       | 8.20   | +1.11                      | 1.05                |                            | 10              | 19                    | 7                     | 5                      | SW             | H. van Keuren.                |
| Society Hill                          | Darlington   | 192              | 13                       | 79.0                               | +0.1                       | 95       | 19    | 62      | 25                       | 22                    | 4.94   | -1.76                      | 1.14                |                            | 16              | 12                    | 12                    | 7                      | SW             | J. J. Lucas.                  |
| Spartanburg                           | Spartanburg  | 875              | 13                       | 78.4                               | -0.8                       | 102      | 19    | 56      | 26                       | 33                    | 4.04   | -0.19                      | 1.40                |                            | 12              | 21                    | 3                     | 7                      | SW             | F. P. Robinson.               |
| Stateburg                             | Sumter       | 500              | 27                       | 80.3                               | +1.5                       | 100      | 20    | 60      | 26                       | 27                    | 1.75   | -3.41                      | 1.06                |                            | 7               | 5                     | 12                    | 14                     | SW             | W. W. Anderson, M. D.         |
| Summerville                           | Dorchester   | 75               | 7                        | 79.3                               | +0.1                       | 100      | 20    | 61      | 25                       | 28                    | 8.44   | +2.74                      | 1.74                |                            | 16              | 8                     | 13                    | 10                     | SW             | Miss L. R. Gadsden.           |
| Sumter                                | Sumter       | 169              | 3                        | 81.8                               |                            | 105      | 7     | 60      | 26                       | 35                    | 3.28   |                            | 2.01                |                            | 10              | 12                    | 12                    | 7                      | SW             | Wm. D. Shaw.                  |
| + Trenton                             | Edgefield    | 620              | 11                       | 80.4                               | -0.1                       | 102      | 20    | 63      | 24                       | 29                    | 4.71   | -1.52                      | 1.80                |                            | 5               | 11                    | 19                    | 1                      | SW             | C. A. Long.                   |
| Trials                                | Berkeley     | 85               | 18                       | 79.6                               | +0.9                       | 100      | 20    | 63      | 26                       | 30                    | 9.03   | -2.45                      | 2.81                |                            | 14              | 2                     | 21                    | 8                      | W              | Etsell Gaillard.              |
| Walhalla                              | Oconee       | 1061             | 13                       | 75.5                               | -1.0                       | 101      | 20    | 50      | 24                       | 33                    | 4.95   | -0.35                      | 1.80                |                            | 10              | 12                    | 17                    | 2                      | SW             | J. D. Isbell.                 |
| Walterboro                            | Colleton     |                  | 1                        | 79.3                               |                            | 99       | 20    | 63      | 26                       | 31                    | 8.13   |                            | 2.01                |                            | 17              | 10                    | 14                    | 7                      | SW             | J. A. Westerberg.             |
| Wilmington, N. C.                     | New Hanover  | 52               | 35                       | 79.1                               | -0.6                       | 96       | 20    | 68      | 12                       | 21                    | 6.11   | -1.13                      | 2.11                |                            | 18              | 4                     | 21                    | 6                      | SW             | Weather Bureau.               |
| Winnsboro                             | Fairfield    | 545              | 15                       | 80.0                               | +1.1                       | 99       | 20    | 60      | 26                       | 29                    | 4.94   | -0.06                      | 1.17                |                            | 9               | 9                     | 19                    | 3                      | SW             | John W. Seigler.              |
| Winthrop College                      | York         | 690              | 5                        | 78.6                               | -0.4                       | 99       | 20    | 59      | 26                       | 29                    | 4.46   | -0.76                      | 1.23                |                            | 14              | 10                    | 19                    | 2                      | SW             | Geo. B. Green.                |
| Yemassee                              | Beaufort     | 23               | 9                        | 80.0                               | -2.8                       | 100      | 20    | 63      | 26                       | 32                    | 8.81   | +3.00                      | 1.38                |                            | 15              | 21                    | 6                     | 4                      | W              | J. G. Hutson.                 |
| Yorkville                             | York         | 680              | 16                       | 79.4                               | +0.2                       | 102      | 20    | 59      | 25                       | 31                    | 5.65   | +0.22                      | 2.35                |                            | 11              | 4                     | 21                    | 6                      | W              | J. R. Schorb.                 |
| MEANS—highest, lowest and dates, etc. |              |                  |                          | 79.4                               | -0.5                       | 105      | 20    | 50      | 24                       | 37                    | 5.96   | +0.71                      | 6.50                |                            | 12              | 13                    | 12                    | 6                      | SW             |                               |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc. † Not used in the means or summary, apparently too high.

\*\* Received too late to be used in means.

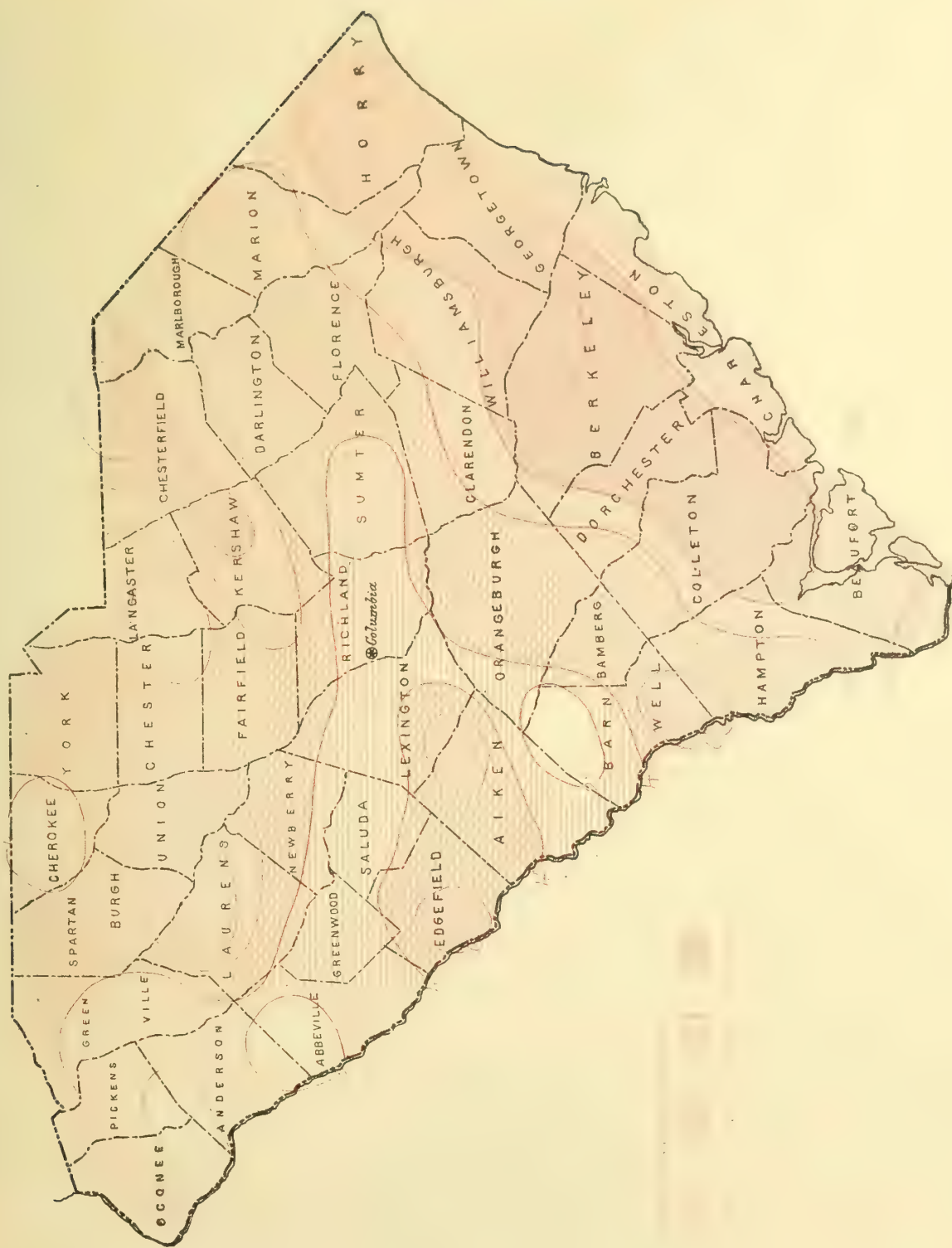


STATISTICS

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TOTAL PRECIPITATION FOR JULY, 1904.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JULY, 1904.

| STATIONS.         | Day of Month. |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | Total. |      |
|-------------------|---------------|------|-----|-----|---|---|---|---|---|----|----|------|-----|------|-----|-----|-----|-----|------|------|-----|----|----|----|----|----|----|----|----|----|----|--------|------|
|                   | 1             | 2    | 3   | 4   | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12   | 13  | 14   | 15  | 16  | 17  | 18  | 19   | 20   | 21  | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |        |      |
| Aiken             |               |      |     | .25 |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 4.70   |      |
| Allendale         | .58           |      |     |     |   |   |   |   |   |    |    | .38  |     |      | .20 |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 7.02   |      |
| Anderson          |               | T.   |     |     |   |   |   |   |   |    |    | T.   |     |      | .09 |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 2.55   |      |
| Augusta, Ga.      |               |      |     |     |   |   |   |   |   |    |    | T.   | T.  |      | .04 | .07 |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 3.23   |      |
| Barksdale         |               | .09  |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 9.51   |      |
| Batesburg         | .61           |      |     | .10 |   |   |   |   |   |    |    | T.   |     |      | .04 | .02 | .24 |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 3.65   |      |
| Beaufort          | .07           | .17  |     |     |   |   |   |   |   |    |    | .53  | .55 | .02  | .41 |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 6.67   |      |
| Bennettsville     |               | T.   |     |     |   |   |   |   |   |    |    | .27  |     | T.   | T.  |     | .83 | .10 | .60  | 1.07 | .08 |    |    |    |    |    |    |    |    |    |    | 7.46   |      |
| Blackville        | .09           |      |     |     |   |   |   |   |   |    |    | .60  | .32 |      | .03 |     |     |     | T.   | T.   |     |    |    |    |    |    |    |    |    |    |    | 1.67   |      |
| Bowman            |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 4.01   |      |
| Calhoun Falls     |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 3.92   |      |
| Camden            |               |      | .22 |     |   |   |   |   |   |    |    | .72  | .58 |      | .12 |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 6.51   |      |
| Charleston        | .07           | 2.23 |     |     |   |   |   |   |   |    |    | .69  | T.  | .15  | .17 | .42 | T.  |     |      | T.   | T.  |    |    |    |    |    |    |    |    |    |    | 6.36   |      |
| Charlotte, N. C.  | .02           |      |     |     |   |   |   |   |   |    |    | .27  | .03 |      | .59 | .56 |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 26     |      |
| Cheraw(1)         | .91           |      |     |     |   |   |   |   |   |    |    | .15  | .19 | T.   | .09 | .73 |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 14.38  |      |
| Cheraw(2)         | .97           |      |     |     |   |   |   |   |   |    |    | .14  | .42 | T.   | .13 | .60 |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 12.02  |      |
| Clark's Hill      |               |      |     |     |   |   |   |   |   |    |    |      |     | T.   | .76 | T.  | .44 | .28 |      |      |     |    |    |    |    |    |    |    |    |    |    | 6.51   |      |
| Clemson College   |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     | .13 |      |      |     |    |    |    |    |    |    |    |    |    |    | 1.44   |      |
| Columbia          |               |      |     |     |   |   |   |   |   |    |    | .05  |     |      | .67 | .13 | .89 | .08 | .01  | .04  |     |    |    |    |    |    |    |    |    |    |    | 3.21   |      |
| Conway            |               |      |     |     |   |   |   |   |   |    |    |      | .65 | 1.20 |     |     |     |     | 1.32 |      |     |    |    |    |    |    |    |    |    |    |    | 8.77   |      |
| Darlington        | .70           |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 5.81   |      |
| Dillon            |               |      | .15 |     |   |   |   |   |   |    |    | .28  | .03 |      | .12 |     |     |     | .05  | .10  | .17 |    |    |    |    |    |    |    |    |    |    | 4.66   |      |
| Due West          |               | 1.38 |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 2.00   |      |
| Edisto            | .07           |      |     |     |   |   |   |   |   |    |    | .05  |     | .24  |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 5.27   |      |
| Effingham         | .15           |      |     |     |   |   |   |   |   |    |    | 1.00 | .10 |      |     |     |     |     | .20  |      |     |    |    |    |    |    |    |    |    |    |    | 3.81   |      |
| Florence          | .26           |      |     |     |   |   |   |   |   |    |    | .98  | .27 | T.   |     |     |     |     | .15  | .06  |     |    |    |    |    |    |    |    |    |    |    | 5.30   |      |
| Gaffney           | .27           |      |     |     |   |   |   |   |   |    |    | 1.30 | .15 |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 3.04   |      |
| Georgetown        |               | .48  | .15 | .05 |   |   |   |   |   |    |    | .02  |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        | 4.28 |
| Gillisonville     |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 2.15   |      |
| Greenville        |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 3.31   |      |
| Greenwood         | .13           |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 7.62   |      |
| Heath Springs     |               |      | .06 |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 7.45   |      |
| Kingstree(1)      |               |      |     |     |   |   |   |   |   |    |    | .56  | .12 | 1.14 | .46 | .40 |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 3.95   |      |
| Kingstree(2)      | T.            |      | .49 |     |   |   |   |   |   |    |    | .35  | T.  | 1.40 | .36 | T.  | .14 |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 3.74   |      |
| Liberty           |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 9.42   |      |
| Little Mountain   |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 5.96   |      |
| Lugoff            |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 8.15   |      |
| Newberry          | T.            |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 4.42   |      |
| Pinopolis         |               |      | .17 |     |   |   |   |   |   |    |    | .63  | .93 | .17  |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 4.20   |      |
| St. Georges       |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 12.75  |      |
| St. Matthews      | .10           |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 7.13   |      |
| St. Stephens      | .05           |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 8.20   |      |
| St. Stephens      |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 4.94   |      |
| Saunders          |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 1.75   |      |
| Santuc            | .14           | .17  |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 8.44   |      |
| Savannah, Ga.     | .42           | .12  |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 3.28   |      |
| Seivern           | .02           |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 4.71   |      |
| Smiths Mills      | .40           |      | .50 |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 9.03   |      |
| Society Hill      |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 8.13   |      |
| Spartanburg       | .14           |      | .15 |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 6.11   |      |
| Stateburg         |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 4.94   |      |
| Summerville       |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 4.81   |      |
| Sumter            |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    | 5.65   |      |
| Trenton           |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |
| Trion             |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |
| Walhalla          |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |
| Walterboro        |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |
| Wilmington, N. C. | .06           | .01  |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |
| Winnsboro         |               |      | .15 |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |
| Winthrop College  | .04           |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |
| Yemassee          | .43           |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |
| Yorkville         |               |      |     |     |   |   |   |   |   |    |    |      |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |    |        |      |

T indicates trace, less than .01 inch



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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR AUGUST, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



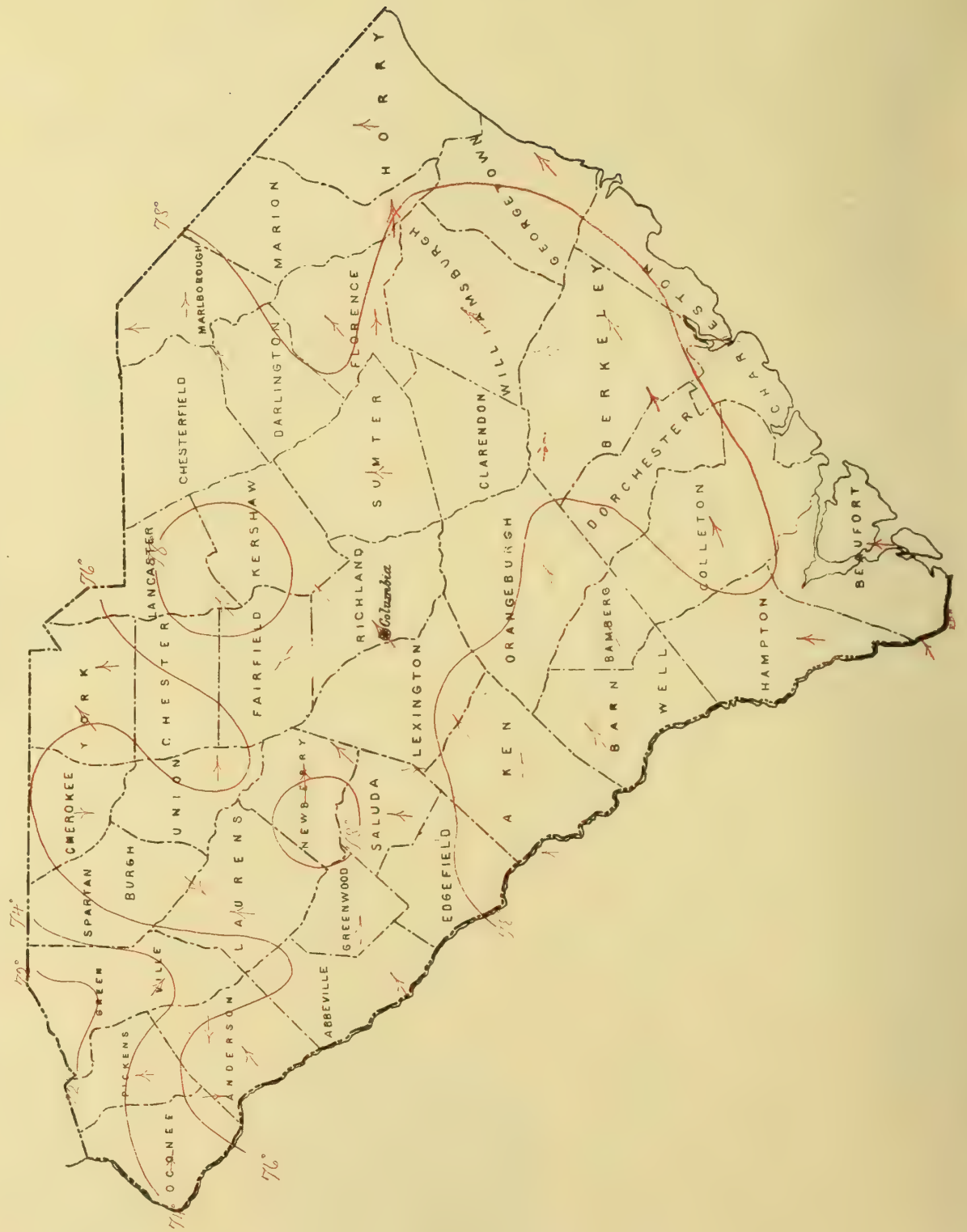
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

SEPTEMBER 23, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR AUGUST, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VII. COLUMBIA, S. C., AUGUST, 1904. No. 8.

## PROGRESS OF FARM WORK.

The month had even temperatures, slightly below normal, until the 20th when a short period of moderately hot weather set in, and continued to the 25th; on the 26th a period of abnormally low temperatures began that continued, with a rising tendency after the 28th, to the close of the month. Neither the heat wave, nor the following cool spell were of sufficient intensity, nor of long enough duration to materially affect crop development, although the heat, following a wet spell, is said to have caused cotton to shed excessively in places, and the cool weather checked its previous rapid opening.

The precipitation was generally above the August average, with exceptions over small areas where slight and unimportant deficiencies occurred. The rainfall was quite evenly distributed; the extreme northwestern and the northeastern portions had the largest amounts—in excess of ten inches—while the greater part of the State had from 6 to 8 inches. Rains were of daily occurrence during the first two weeks, and were less frequent the rest of the month, although the soil was kept moist, in many places wet, by scattered, generally light showers, until the 26-27th when a general storm with moderately heavy cold rainfall again completely saturated the ground.

There were a few destructive hail-storms, confined to small areas, early in the month, and some damage to crops was caused locally by high winds; the heavy rains caused some of the smaller streams to overflow their banks, damaging crops on adjoining bottom lands, but the aggregate damage from all these sources was comparatively small.

The weather was favorable on corn which developed rapidly, and its condition at the close of the month was exceedingly promising. Early planted corn reached maturity, and, owing to adverse weather in the spring, was not as good as that part of the crop which was planted late in April and in May.

There were fears that the excessive rains, early in the month, would injure cotton by causing excessive shedding, and the development of rust, and these fears were partly realized, after the rains ceased, by considerable rust and shedding on sandy soils, but not to an extent to materially

reduce the prospective yield although there was less "top crop" fruitage than the size of the plants indicated. The rains were less damaging, and possibly were favorable, on clay land cotton which grew very fast and fruited satisfactorily. On the whole, the deterioration was less than is usual in August. Cotton began to open in the southern counties about the middle of the month, and by the close picking was active, while in the western counties the crop is late, and opening did not begin until the last few days, and none was picked.

Tobacco curing was finished; the quality of the late crop was impaired slightly by the wet weather. Rice thrived, and the earliest ripened. The soil was in excellent condition for the germination of fall truck. Sweet potatoes, cane, and other fall crops did well. Grass for hay attained rank growth. There was very little fall plowing done. The rains caused much late fruit to rot as it ripened, and impaired the quality of late melons. On the whole the weather was favorable for all crops.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for August, 1904, was 77.6°, which is 1.7° below normal. The highest local mean was 79.8° at Charleston; the lowest 72.4° at Greenville. The monthly extremes were a maximum of 102° at Sumter on the 22nd, and a minimum of 54° at Cheraw and Greenville on the 28th, making the State range 48°. The greatest local monthly range was 45° at Aiken, the least was 31° at Charleston and Georgetown. The mean of the daily maximum temperatures was 87.4°, and of the daily minimum temperatures was 67.8°, making the average daily range 19.6°.

## Precipitation, in Inches.

The precipitation averaged 8.47 inches, which is 2.17 above normal. The greatest local amount was 13.43 at Effingham, the least was 3.92 at Aiken. The greatest 24-hour fall was 5.14 at Beaufort on the 27th. The average number of days with 0.01, or more, precipitation was 14, ranging from 6 at Calhoun Falls and Winnsboro to 21 at Summerville.

Hail.—Batesburg, Blackville, Seivern, 15th; Bennettsville, 26; Newberry, 15th, 26th; St. Stephens, 23rd; Walhalla, 15, 23rd.

Excessive Precipitation.—Allendale, 6th, 1.15 in 1 hr.; Anderson, 8th, 4.33 in 24 hrs., 27th, 3.15 in 24 hrs.; Beaufort, 27th, 5.08 in 3 hrs.; Calhoun Falls, 7-8th, 3.25 in 24 hrs.; Charleston, 3-4th, 2.76 in 24 hrs.; Columbia, 6th, 1.11 in 30 mins., 19th, 1.28 in 15 mins.; Clemson College, 7-8th, 2.75 in 24 hrs.; Gaffney, 26-27th, 2.84 in 24 hrs.; Greenville, 1st, 2.88 in 24 hrs.; Greenwood, 5th, 2.10 in 1 hr.; Heath Springs, 27th, 2.55 in 15 hrs.; Little Mountain, 5th, 1.90 in 1 hr. 15 mins.; Smiths Mills, 4th, 2.80 in 24 hrs.; Walterboro, 27-28th, 4.85 in 12 hrs.; Winthrop College, 27th, 2.90 in 24 hrs.

Weather.—The average number of clear days was 12, of partly cloudy 9, and of cloudy ones 12.

Winds.—The prevailing direction of the wind was from the southwest at 22 stations, from the south at 13, from the west



at 9, from the north at 3, from the east at 2, and from the northeast, southeast and northwest at 1 station each.

High Winds.—Blackville, 18th; Columbia, Santuc, 15th; Saluda, 15th, 23rd.

#### MISCELLANEOUS PHENOMENA (with dates).

Lunar Halos.—Charleston, 15, 26.

Solar Halos.—Charleston, 1, 16, 19, 20, 26; Gillisonville, 11th.

Fogs, Dense.—Blackville, 25; Charleston, 15; Cheraw, 2, 12; Columbia, Newberry, 4; Dillon, 1, 2, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 28; Greenville, 5, 16; Heath Springs, 2, 3, 4, 10, 15, 25; Liberty, 1, 2, 3, 4, 5, 6, 10, 16, 31; Saluda, 3, 4, 5, 12; Santuc, 3, 4, 13, 16, 24; Seivern, 1, 5, 11, 26; Society Hill, 1, 12; Yorkville, 3, 6.

Thunderstorms.—Barksdale, 2, 15; Batesburg, 1, 2, 3, 4, 5, 6, 8, 16, 28; Beaufort, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 26, 27; Blackville, 2, 4, 5, 6, 7, 9, 15, 19, 22, 23, 26; Bowman, 2, 3, 4, 5, 6, 7, 9, 15, 19, 20, 23, 26, 27; Cheraw, 1, 2, 3, 5, 9, 10, 11, 12, 15, 19, 23, 26; Dillon, 3, 4, 5, 9, 10, 23; Georgetown, 1, 2, 3, 4, 5, 6, 8, 15, 17, 23; Gillisonville, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 17, 18, 19, 26, 27; Greenville, Heath Springs, 26; Liberty, 1, 5, 7, 10, 11, 15, 19, 25; Little Mountain, 4, 5, 23, 26; Newberry, 5, 9, 10, 11, 12, 15, 23, 26; Saluda, 2, 5, 9, 11, 15; Santuc, 1, 12, 15, 19, Seivern, 2, 4, 7, 8, 9, 12, 15, 24, 27; Society Hill, 11, 15, 19, 23, 26, 27; Summerville, 2, 6, 7, 17, 18; Trenton, 3, 4, 5, 9, 10, 11, 12, 23; Trial, 6, 7, 10, 12, 15, 18, 19, 23; Walhalla, 15, 23, 26; Walterboro, 1, 2, 4, 5, 6, 7, 8, 9, 11, 14, 16, 17, 18, 22, 23, 26, 27; Winthrop College, 2, 7, 8, 10, 11, 26, 27; Yorkville, 2, 5, 9, 10, 11, 15, 23, 25, 26.

There was a total of 211 thunderstorms reported, on 27 dates as follows: 10 on the 1st, 12 on the 2nd, 8 on the 3rd, 11 on the 4th, 15 on the 5th, 9 on the 6th, 10 on the 7th, 8 on the 8th, 12 on the 9th, 10 each on the 10th and 11th, 9 on the 12th, 1 on the 13th, 2 on the 14th, 15 on the 15th, 3 on the 16th, 5 on the 17th, 6 on the 18th, 9 on the 19th, 2 on the 20th, 3 on the 22nd, 14 on the 23rd, 2 on the 24th, 2 on the 25th, 14 on the 26th, 7 on the 27th, and 1 on the 28th.

In addition to the above, Charleston reported storms on the 1, 2, 3, 4, 5, 6, 9, 13, 14, 15, 17, 18, 19, 22, 23, 26, 27; Columbia on the 1, 2, 4, 5, 6, 8, 9, 10, 11, 12, 15, 19, 23, 26.

Barometer and Wind Table for August, 1904.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....     | 30.07      | 30.25    | 10    | 29.87   | 15    | 3.311           | 4.5             | 38                | W.         | 15    |
| Charleston. ....      | 30.09      | 30.27    | 10    | 29.89   | 15    | 6.018           | 8.1             | 29                | SW.        | 4     |
| Charlotte, N. C. .... | 30.09      | 30.29    | 10    | 29.90   | 16    | 3.481           | 4.7             | 29                | SW.        | 15    |
| Columbia. ....        | 30.07      | 30.26    | 10    | 29.87   | 15    | 4.835           | 6.5             | 40                | W.         | 15    |
| Savannah, Ga. ....    | 30.09      | 30.26    | 10    | 29.94   | 11    | 4.620           | 6.2             | 36                | SW.        | 6     |
| Wilmington, N. C. .   | 30.06      | 30.27    | 10    | 29.86   | 15    | 4.525           | 6.1             | 38                | W.         | 18    |
| Averages. ....        | 30.08      | 30.29    | 10    | 29.86   | 15    | 4.465           | 6.0             | 40                | W.         | 15    |

#### REMARKS BY OBSERVERS.

ALLENDALE.—The rainfall was ample; cotton will yield well this season. BARKSDALE.—Cotton began opening fast at the close of the month; the cool nights from the 26th to the 28th did much damage by causing bolls to rot. BATESBURG.—A hailstorm on the 15th did considerable damage, especially to peas and late cotton; early cotton

opened fast. BEAUFORT.—Mean temperature was 2.3° below normal, precipitation 4.76 inches above; this has been the coolest summer since 1889; cotton deteriorated greatly during the month, considerable was picked and ginned. BENNETTSVILLE.—Cotton picking was active in places by the close of the month; there was a large grape yield. BOWMAN.—Thunderstorms were unusually frequent this month, with occasional light hailstorms; the weather was favorable at the close for picking cotton which opened later than usual. DILLON.—Cotton shed badly this month, although the plants bear an average crop; the rainfall was ample. GILLISONVILLE.—The month was cool and unfavorable for saving forage; cotton was injured during the first half, it opened rapidly and picking was rushed the latter part. HEATH SPRINGS.—The weather was favorable for corn, which is a fine crop; there was too much rain for cotton, causing much shedding; all minor crops are good. LIBERTY.—A wet month; cotton continued to shed to its close, although blooming; the corn crop is generally good; peas and grass for hay are fine. NEWBERRY.—Excessive rainfall caused cotton to shed and rust. SALUDA.—High winds on the 15th blew down trees and fences; on the 23rd it blew down some buildings and trees; it was accompanied by hail. SOCIETY HILL.—Frequent and excessive precipitation was very damaging to the cotton crop, the yield will hardly exceed that of last year; other crops are very promising. TRENTON.—Precipitation 1.40 inches more than normal for August, and 10.45 less than the average for the first eight months. STATEBURG.—Although the amount of precipitation was excessive, there were only four days on which it was heavy enough to wash lands, or flood them, and, on the whole, crops seem to have been benefited especially where the fields were well fertilized, and on clay soils.

#### KILLING FROST IN AUTUMN.

In years when the development and growth of the cotton plant is late, for any reason whatever, and the plants bear a large crop of unripe bolls, the occurrence of killing frost determines largely the size of the yield. If the frost occurs early the yield is reduced, and if frost is deferred beyond the usual, or average date of occurrence the crop yield is largely increased. On most soils the plants continue to bloom and fruit until killed by frost. The time from blooming to opening ranges from 45 to 60 days, the variation being caused by the differences in soil, fertilizers used and the weather during the interval. The attached table gives the times of average and earliest killing frosts at the stations having the longest and most complete records. The time covered by the table is not the same for all the stations, but ranges from ten to thirty-three years back, the oldest record being that for Charleston:

#### First Killing Frosts in Autumn.

| Stations.         | Average Date of First. | Earliest Known.     |
|-------------------|------------------------|---------------------|
| Aiken.....        | November 20.....       | October 28, 1902.   |
| Beaufort.....     | November 28.....       | November 7, 1901.   |
| Blackville.....   | November 17.....       | November 8, 1900.   |
| Clemson College.. | October 31.....        | October 15, 1898.   |
| Charleston.....   | November 30.....       | November 9, 1896.   |
| Columbia.....     | November 8.....        | October 19, 1896.   |
| Greenville.....   | November 6.....        | October 23, 1898.   |
| Santuc.....       | October 29.....        | September 30, 1895. |
| Society Hill..... | November 15.....       | October 27, 1903.   |
| Stateburg.....    | November 14.....       | October 27, 1903.   |
| Trenton.....      | November 11.....       | October 25, 1903.   |
| Trial.....        | November 5.....        | October 10, 1895.   |



CLIMATE AND CROPS: SOUTH CAROLINA SECTION.

| CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST, 1904. |               |                 |                         |                                     |                            |          |       |         |                           |                       |        |                            |                       |                            |                 |                       |                               |                          |                        |
|--|---------------|-----------------|-------------------------|-------------------------------------|----------------------------|----------|-------|---------|---------------------------|-----------------------|--------|----------------------------|-----------------------|----------------------------|-----------------|-----------------------|-------------------------------|--------------------------|------------------------|
| STATIONS.  | Counties.     | Elevation—feet. | Length of record—years. | Temperature— in degrees Fahrenheit. |                            |          |       |         | Precipitation— in inches. |                       |        |                            |                       | Sky.                       |                 |                       |                               |                          | Observers.             |
|  |               |                 |                         | Mean.                               | Departure from the normal. | Highest. | Date. | Lowest. | Date.                     | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall— in inches. | Number of days. | Number of clear days. | Number of partly cloudy days. | Number of overcast days. |                        |
| Aiken.   | Aiken.        | 505             | 3                       | 79.6                                | +0.6                       | 101      | 22    | 56      | *28                       | 18                    | 3.92   | 2.72                       | 0.90                  | 8                          | 18              | 5                     | 8                             | W.                       | C. E. Carnon.          |
| Allendale.   | Barnwell.     | 186             | 16                      | 79.1                                | -0.8                       | 98       | 22    | 61      | 30                        | 24                    | 8.94   | +1.36                      | 2.38                  | 11                         | 21              | 6                     | 10                            | SW.                      | C. A. Glover.          |
| Anderson.  | Anderson.     | 764             | 3                       | 77.5                                | +0.3                       | 97       | 26    | 57      | *27                       | 30                    | 11.03  | +5.21                      | 4.33                  | 11                         | 11              | 14                    | 3                             | SW.                      | R. B. Dean.            |
| Augusta, Ga.                                       | Richmond.     | 144             | 33                      | 80.2                                | +0.8                       | 99       | 23    | 60      | *27                       | 27                    | 6.62   | +1.41                      | 1.07                  | 16                         | 9               | 12                    | 10                            | S.                       | Weather Bureau.        |
| Barksdale.   | Laurens.      | 780             | 3                       | 77.8                                | ...                        | 94       | 25    | 57      | 27                        | 26                    | 11.68  | ...                        | 2.61                  | 13                         | 13              | 15                    | 3                             | S.                       | J. T. Garrett.         |
| Batesburg.   | Lexington.    | 656             | 16                      | 77.4                                | -1.8                       | 97       | 23    | 50      | 28                        | 30                    | 7.64   | +2.03                      | 1.45                  | 12                         | 13              | 4                     | 11                            | W.                       | E. J. Hale.            |
| Beaufort.  | Beaufort.     | 28              | 18                      | 79.4                                | -2.3                       | 94       | 21    | 61      | 28                        | 22                    | 11.45  | +4.76                      | 5.11                  | 15                         | 13              | 12                    | 6                             | SW.                      | S. M. Benton.          |
| Bennettsville.                                     | Marlboro.     | 206             | 3                       | 77.0                                | ...                        | 97       | 22    | 55      | 27                        | 27                    | 6.00   | 1.72                       | ...                   | 7                          | 22              | 3                     | 6                             | W.                       | Geo. L. McCall.        |
| Blackville.  | Barnwell.     | 160             | 16                      | 78.3                                | -1.0                       | 99       | 21    | 50      | 28                        | 27                    | 7.81   | +1.84                      | 2.41                  | 16                         | 9               | 21                    | 1                             | SW.                      | G. D. C. Lange.        |
| Bowman.  | Orangeburg.   | 160             | 3                       | 78.6                                | ...                        | 98       | *22   | 58      | *28                       | 31                    | 7.59   | ...                        | 2.18                  | 13                         | 16              | 14                    | 1                             | SW.                      | B. O. Evans.           |
| Calhoun Falls.                                     | Abbeville.    | 508             | 11                      | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | 5.75   | -1.63                      | 3.25                  | 6                          | 19              | 6                     | 12                            | SW.                      | P. J. Pfeiffer.        |
| Camden.  | Kershaw.      | 222             | 38                      | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | 5.11   | +0.19                      | 1.18                  | 12                         | 17              | 6                     | 8                             | SW.                      | J. C. Whitaker.        |
| Charleston.  | Charleston.   | 48              | 35                      | 79.8                                | -0.7                       | 93       | 22    | 62      | 28                        | 19                    | 6.62   | -1.00                      | 2.76                  | 16                         | 5               | 17                    | 9                             | SW.                      | Weather Bureau.        |
| Charlotte, N. C.                                   | Mecklenburg.  | 808             | 20                      | 75.7                                | -0.4                       | 92       | 22    | 55      | 27                        | 23                    | 10.31  | +4.60                      | 2.10                  | 19                         | 8               | 12                    | 11                            | SW.                      | Weather Bureau.        |
| Cheraw (1).  | Chesterfield. | 141             | 10                      | 76.8                                | -2.3                       | 93       | *22   | 54      | 28                        | 25                    | 6.52   | +1.14                      | 1.33                  | 14                         | 12              | 1                     | 18                            | S.                       | W. R. Godfrey.         |
| Cheraw (2).  | ...           | 141             | 11                      | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | 5.95   | +0.20                      | 1.28                  | 15                         | 10              | 7                     | 14                            | W.                       | Geo. H. Powe.          |
| Clarks Hill.                                       | Edgefield.    | 456             | 2                       | 77.8                                | ...                        | 96       | 21    | 61      | 29                        | 26                    | 5.60   | ...                        | 1.25                  | 12                         | ...             | ...                   | ...                           | Wm. S. Middleton.        |                        |
| Clemson College.                                   | Oconee.       | 850             | 13                      | 76.7                                | -3.4                       | 93       | 25    | 57      | 28                        | 33                    | 10.48  | +5.56                      | 2.75                  | 12                         | 12              | 10                    | 9                             | W.                       | Prof. C. C. Newman.    |
| Columbia College.                                  | Richland.     | 351             | 17                      | 77.7                                | -2.1                       | 95       | 22    | 56      | 27                        | 26                    | 7.69   | +0.81                      | 1.17                  | 18                         | 7               | 15                    | 9                             | SW.                      | Central Office.        |
| Conway.  | Horry.        | 25              | 13                      | 78.2                                | ...                        | 96       | 22    | 59      | 29                        | 27                    | 9.48   | +3.27                      | 2.30                  | 16                         | 20              | 3                     | 8                             | S.                       | McQ. Quattlebaum.      |
| *Darlington.                                       | Darlington.   | 175             | 9                       | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | ...    | ...                        | ...                   | ...                        | ...             | ...                   | ...                           | E. R. McIver.            |                        |
| Dillon.  | Marion.       | 160             | 0                       | 78.5                                | ...                        | 99       | 23    | 56      | 28                        | 33                    | 5.56   | ...                        | 1.45                  | 14                         | ...             | ...                   | ...                           | A. E. Rowell.            |                        |
| Due West.  | Abbeville.    | 740             | 3                       | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | ...    | ...                        | ...                   | ...                        | ...             | ...                   | ...                           | Rev. O. Y. Bonner.       |                        |
| Edisto.  | Bamberg.      | 127             | 11                      | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | 7.88   | +2.63                      | 1.70                  | 19                         | 14              | 7                     | 10                            | SW.                      | M. Thompson.           |
| Ellingham.   | Florence.     | 106             | 12                      | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | 13.43  | +7.69                      | 2.10                  | 17                         | 13              | 4                     | 14                            | W.                       | H. B. McCall.          |
| Enore.   | Spartanburg.  | 987             | ...                     | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | ...    | ...                        | ...                   | ...                        | ...             | ...                   | ...                           | E. P. Porter.            |                        |
| Florence.  | Florence.     | 136             | 16                      | 78.8                                | -1.7                       | 99       | 23    | 57      | *28                       | 30                    | 7.41   | +1.59                      | 1.65                  | 15                         | 14              | 3                     | 11                            | SW.                      | H. K. Gilbert.         |
| Galley.  | Charleston.   | 893             | 8                       | 77.5                                | ...                        | 95       | *21   | 56      | *28                       | 34                    | 9.86   | +3.83                      | 2.84                  | 19                         | ...             | ...                   | ...                           | B. F. Camp.              |                        |
| Georgetown.  | Georgetown.   | 12              | 11                      | 78.4                                | -2.1                       | 92       | *22   | 61      | 27                        | 20                    | 4.63   | -1.37                      | 1.80                  | ...                        | ...             | ...                   | ...                           | Reid Whitford.           |                        |
| Gilbertsville.                                     | Hampton.      | 50              | 9                       | 78.4                                | -3.2                       | 98       | 20    | 61      | *28                       | 26                    | 8.75   | +0.11                      | 1.78                  | 15                         | 11              | 7                     | 13                            | SW.                      | Sam P. Sallis.         |
| Greenville.  | Greenville.   | 980             | 12                      | 72.4                                | -4.7                       | 88       | *21   | 51      | 28                        | 24                    | 12.19  | +6.63                      | 2.88                  | 15                         | 12              | 4                     | 14                            | nw.                      | Mrs. S. A. Crittenden. |
| *Greenwood.  | Greenwood.    | 671             | 16                      | 76.8                                | -2.4                       | 93       | 22    | 56      | 28                        | 24                    | 11.02  | +5.50                      | 2.88                  | 12                         | 14              | 6                     | 17                            | W.                       | M. M. Calhoun.         |
| Heath Springs.                                     | Lancaster.    | 51              | 3                       | 78.4                                | ...                        | 97       | 24    | 62      | 8                         | 28                    | 12.09  | 2.55                       | ...                   | 15                         | 14              | 10                    | 7                             | SW.                      | J. A. Weaver.          |
| Kingstree (1).                                     | Williamsburg. | 51              | 16                      | 76.8                                | -3.2                       | 93       | *15   | 58      | 28                        | 25                    | 6.85   | +0.77                      | 1.06                  | 16                         | 15              | 2                     | 14                            | ...                      | J. A. Scott.           |
| Kingstree (2).                                     | ...           | 54              | 10                      | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | 7.62   | +0.94                      | 1.20                  | 17                         | 20              | 1                     | 10                            | SW.                      | A. O. Matthews.        |
| Liberty.   | Pickens.      | 900             | 10                      | 75.8                                | -1.6                       | 92       | *21   | 57      | 28                        | 27                    | 8.64   | +0.81                      | 2.20                  | 10                         | 14              | 14                    | 3                             | S.                       | Geo. T. Boggs.         |
| *Little Mountain.                                  | Newberry.     | 711             | 11                      | 77.6                                | -2.6                       | 97       | 23    | 56      | 28                        | 26                    | 7.20   | +2.06                      | 1.90                  | 14                         | 6               | 19                    | 6                             | SW.                      | John M. Sease, M. D.   |
| Lugoff.  | Kershaw.      | 168             | 3                       | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | ...    | ...                        | ...                   | ...                        | ...             | ...                   | ...                           | W. J. Burdell, M. D.     |                        |
| Newberry.  | Newberry.     | 502             | 0                       | 78.0                                | -0.9                       | 96       | 22    | 57      | 28                        | 29                    | 6.78   | +1.48                      | 1.50                  | 16                         | 8               | 12                    | 11                            | W.                       | W. G. Peterson.        |
| Pelzer.  | Anderson.     | 873             | ...                     | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | ...    | ...                        | ...                   | ...                        | ...             | ...                   | ...                           | John M. Ward.            |                        |
| *Pinopolis.  | Berkeley.     | 54              | 11                      | 76.1                                | -2.5                       | 90       | 23    | 62      | 28                        | 22                    | 11.43  | +2.12                      | 1.95                  | 15                         | 8               | 0                     | 23                            | SW.                      | E. P. Ravenel.         |
| St. Georges.                                       | Dorchester.   | 169             | 16                      | 78.5                                | -1.2                       | 94       | *21   | 59      | 29                        | 24                    | 6.75   | +0.35                      | 1.90                  | 19                         | 14              | 4                     | 13                            | SW.                      | W. B. Raylor.          |
| St. Matthews.                                      | Orangeburg.   | 260             | 16                      | 77.4                                | -3.0                       | 93       | 22    | 59      | 29                        | 20                    | 7.67   | +1.35                      | 2.23                  | 18                         | 14              | 5                     | 12                            | ...                      | J. S. Warramaker.      |
| St. Stephens.                                      | Berkeley.     | 73              | 12                      | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | 10.96  | +3.14                      | 1.90                  | 16                         | 17              | 3                     | 11                            | S.                       | C. T. Shuler.          |
| Saluda.  | Saluda.       | 530             | 3                       | 77.4                                | ...                        | 96       | 23    | 56      | 28                        | 31                    | 8.87   | 2.00                       | ...                   | 15                         | 13              | 10                    | 8                             | S.                       | Alvin Etheridge.       |
| Santuc.  | Union.        | 512             | 11                      | 74.8                                | -3.7                       | 96       | 22    | 55      | 28                        | 35                    | 9.57   | +4.48                      | 1.92                  | 14                         | 10              | 17                    | 4                             | W.                       | E. W. Jeter.           |
| Savannah, Ga.                                      | Chatham.      | 71              | 35                      | 79.4                                | -0.9                       | 93       | 18    | 63      | 28                        | 22                    | 6.46   | -1.28                      | 1.39                  | 21                         | 11              | 15                    | 5                             | SW.                      | Weather Bureau.        |
| Seivern.   | Aiken.        | 482             | 3                       | 78.4                                | -1.9                       | 99       | 24    | 57      | 28                        | 36                    | 5.65   | -0.79                      | 1.11                  | 11                         | 12              | 12                    | 7                             | SW.                      | Geo. C. Gunter.        |
| Smiths Mills.                                      | Williamsburg. | 62              | 9                       | ...                                 | ...                        | ...      | ...   | ...     | ...                       | ...                   | 11.90  | +5.23                      | 2.80                  | 19                         | 17              | 0                     | 14                            | W.                       | H. van Keulen.         |
| Society Hill.                                      | Darlington.   | 192             | 13                      | 77.2                                | -1.2                       | 93       | 22    | 56      | 27                        | 23                    | 9.64   | +4.02                      | 1.85                  | 15                         | 10              | 14                    | 7                             | SW.                      | J. J. Lucas.           |
| Spartanburg.                                       | Spartanburg.  | 875             | 13                      | 76.9                                | -2.1                       | 96       | 21    | 55      | 28                        | 29                    | 11.79  | +6.26                      | 1.94                  | 13                         | 17              | 1                     | 13                            | ...                      | F. P. Robinson.        |
| Stateburg.   | Sumter.       | 500             | 27                      | 77.4                                | -0.3                       | 94       | 22    | 57      | 28                        | 22                    | 9.18   | +4.05                      | 2.26                  | 16                         | 5               | 8                     | 18                            | SW.                      | W. W. Anderson, M. D.  |
| Summerville.                                       | Dorchester.   | 75              | 7                       | 77.1                                | -2.9                       | 93       | *22   | 60      | 27                        | 24                    | 8.68   | 0.76                       | 1.86                  | 21                         | 12              | 10                    | 9                             | SW.                      | Miss L. R. Gadsden.    |
| Sumter.  | Sumter.       | 169             | 3                       | 81.9                                | ...                        | 102      | *22   | 65      | 16                        | 32                    | ...    | ...                        | ...                   | ...                        | ...             | ...                   | ...                           | Wm. D. Shaw.             |                        |
| *Trenton.  | Edgefield.    | 620             | 11                      | 78.0                                | -2.4                       | 100      | 21    | 56      | 28                        | 26                    | 8.30   | +1.10                      | 1.93                  | 10                         | 8               | 17                    | 6                             | S.                       | C. A. Long.            |
| Trials.  | Berkeley.     | 85              | 18                      | 77.6                                | -0.1                       | 96       | 23    | 59      | *28                       | 28                    | 6.53   | 1.09                       | 1.78                  | 15                         | 5               | 18                    | 8                             | W.                       | Etsell Gaillard.       |
| Walhalla.  | Oconee.       | 1061            | 13                      | 75.6                                | -1.1                       | 94       | 21    | 57      | 28                        | 34                    | 10.46  | +4.54                      | 1.86                  | 16                         | 13              | 12                    | 6                             | W.                       | J. D. Isbell.          |
| Walterboro.  | Colleton.     | ...             | 1                       | 77.4                                | ...                        | 94       | 23    | 60      | *28                       | 24                    | 11.22  | 4.85                       | ...                   | 17                         | 11              | 11                    | 9                             | SW.                      | J. A. Westerberg.      |
| Wilmington, N. C.                                  | New Hanover.  | 52              | 35                      | 77.6                                | -0.6                       | 95       | 23    | 61      | 29                        | 25                    | 6.77   | -0.70                      | 2.33                  | 16                         | 7               | 19                    | 5                             | SW.                      | Weather Bureau.        |
| Windsboro.   | Fairfield.    | 545             | 15                      | 77.0                                | -1.0                       | 96       | 22    | 56      | 28                        | 23                    | 4.96   | +0.18                      | 1.75                  | 6                          | 13              | 14                    | 4                             | se.                      | John W. Seigler.       |
| Winthrop College.                                  | York.         | 690             | 5                       | 76.2                                | -1.8                       | 94       | *22   | 55      | *27                       | 27                    | 10.99  | +6.61                      | 2.90                  | 15                         | 10              | 13                    | 8                             | S.                       | Geo. B. Green.         |
| Yemassee.  | Beaufort.     | 23              | 0                       | 78.1                                | -3.5                       | 94       | *15   | 61      | *28                       | 25                    | 7.53   | +0.86                      | 1.42                  | 17                         | 20              | 1                     | 10                            | ...                      | J. G. Hutson.          |
| Yorkville.   | York.         | 680             | 16                      | 77.0                                | -0.9                       | 95       | 22    | 55      | 29                        | 29                    | 11.30  | +6.34                      | 2.81                  | 15                         | 3               | 17                    | 11                            | SW.                      | J. R. Schorb.          |
| MEANS— highest, lowest and dates, etc.             |               |                 |                         | 77.6                                | -1.7                       | 102      | *22   | 54      | 28                        | 35                    | 8.47   | +2.17                      | 5.14                  | 14                         | 12              | 9                     | 10                            | SW.                      |                        |

NOTE.— All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.      † Maximum thermometer not standard.      \* Minimum thermometer not standard.  
§ Exposed not standard.      \* On other dates also.      a indicates 1 day missing, b, 2 days, etc.      ‡ Not used in the means or summary, apparently too high.

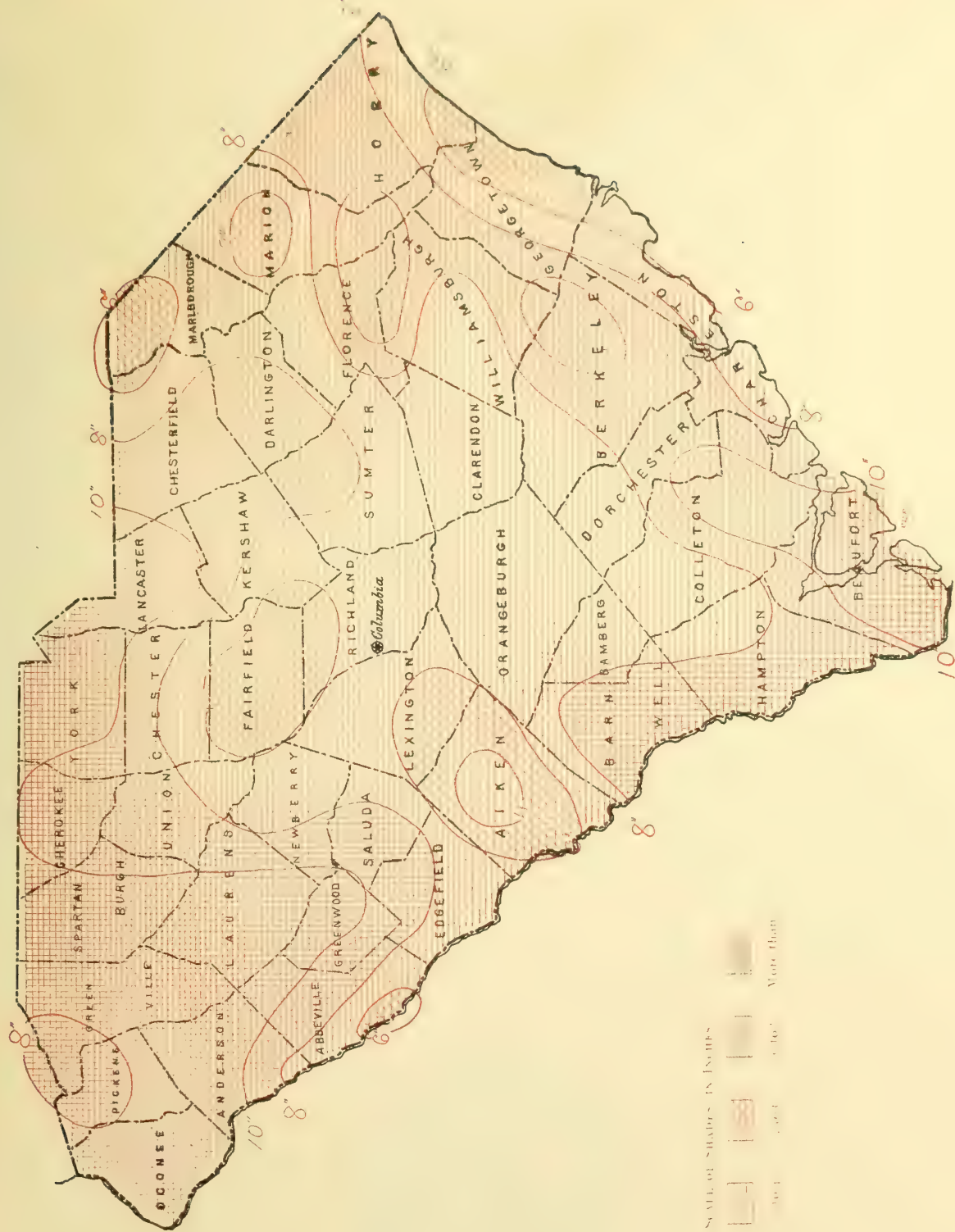


### STATIONS.

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# TOTAL PRECIPITATION FOR AUGUST, 1904.



SCALE OF SHADES IN INCHES

|             |         |          |              |
|-------------|---------|----------|--------------|
| Less than 8 | 8 to 10 | 10 to 12 | More than 12 |
|-------------|---------|----------|--------------|



## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1904.

| STATIONS.         | Day of Month. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | Total. |
|-------------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|------|-----|------|------|------|------|------|------|------|-----|----|-----|--------|
|                   | 1             | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17  | 18   | 19  | 20   | 21  | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29  | 30 | 31  |        |
| Aiken             |               |      |      | .45  | .90  | .10  | .72  | .10  | .35  | .60  |      |      |      |      |      |      |     |      |     | 2.38 |     |      |      |      | 1.80 | .60  | .10  |      |     |    |     | 3.92   |
| Allendale         | .45           |      | .26  |      | .10  | .75  | .15  | .70  |      | .15  |      |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 8.94   |
| Anderson          |               | .15  |      | .10  | .13  |      | .82  | .43  |      | .75  | .90  | .02  |      |      | .45  |      |     |      |     |      |     |      |      |      |      | .47  | .15  |      |     |    |     | 11.03  |
| Augusta, Ga.      | .02           | .74  | .18  | .09  | .75  | .13  | .82  | .41  | .42  | .36  | 1.07 |      |      |      | .57  |      |     |      |     | .07  |     |      |      |      |      | .01  | .92  | .03  |     |    |     | 6.62   |
| Barksdale         | T.            | 1.50 | .03  | .05  |      |      |      | 2.00 | 2.61 | .15  | .48  | .10  |      |      | .33  |      |     |      |     | .27  |     |      |      |      |      | 2.05 | 2.08 |      |     |    |     | 11.68  |
| Batesburg         | .25           | .17  | .47  | 1.38 | 1.11 | 1.09 | T.   | 1.45 |      | .09  |      |      |      |      |      | 1.81 |     |      |     | .21  |     |      |      |      | .19  |      |      | .42  |     |    |     | 7.64   |
| Beaufort          | .67           | .03  | .37  | 1.85 | .67  | .63  | T.   | 1.16 | .15  | .07  |      | .70  | .05  |      |      | .25  |     |      |     | .02  | T.  |      |      |      | .69  |      | 5.14 |      |     |    |     | 11.45  |
| Bennettsville     |               |      |      | 1.20 | .39  |      | T.   | 1.72 |      |      |      |      |      |      |      |      |     |      |     |      |     |      |      |      | .25  | 1.50 | .80  |      |     |    |     | 6.00   |
| Blackville        | .70           |      | .39  |      | .34  | .22  | .12  | .74  |      | .58  | .01  |      |      |      |      | .03  | .12 |      |     | .96  | .12 |      |      | .05  | .61  |      | 2.41 | .43  |     |    |     | 7.83   |
| Bowman            | T.            | .15  | .03  | .08  | .40  | 1.55 | .60  | T.   | .63  | T.   | T.   |      |      |      | .48  | T.   |     |      | .80 | .04  |     |      |      | .35  |      | 2.18 | .30  |      |     |    |     | 7.59   |
| Calhoun Falls     |               |      |      |      |      |      |      | 3.25 | .70  | .42  |      |      |      |      |      | .74  |     |      |     |      |     | 1.18 |      |      |      |      | .34  | .75  |     |    |     | 5.11   |
| Camden            |               | .15  | .22  | .13  | .26  |      |      |      |      | .54  |      |      | .50  | .14  |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 6.62   |
| Charleston        | T.            | .02  | .24  | 2.53 | .70  | .03  | .01  | T.   | .82  | .01  |      |      | .02  | .04  |      |      | .13 | .08  |     |      |     |      |      |      | .30  |      |      |      |     |    |     | 5.11   |
| Charlotte, N. C.  | T.            | 1.71 | .01  | .06  | 1.06 | .01  | 1.53 | .46  | .09  | .21  | 1.79 | T.   |      |      | .51  | .22  |     |      | .02 | .24  |     |      |      |      | .01  |      | .18  | 2.05 | .08 |    | .07 | 10.31  |
| Cheraw(1)         |               | .85  | .30  | .08  | 1.33 |      |      | .72  | .14  | .05  |      |      | .24  |      |      | .36  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 6.52   |
| Cheraw(2)         |               | .42  | .24  | .04  | .08  | 1.16 |      | .76  | .12  | .04  |      |      | .18  | .01  |      | .16  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 5.95   |
| Clark's Hill      | .19           | .50  | .40  | .40  |      | .40  | .50  | .68  | T.   | .39  | .03  |      |      |      | 1.25 |      |     |      |     | .12  |     |      |      |      |      |      |      |      |     |    |     | 5.60   |
| Clemson College   | .83           | 1.18 | .07  |      | .24  |      | 2.75 | 2.20 | .28  |      | .08  |      | .84  |      | .45  |      |     |      |     |      |     |      |      |      |      | .28  | 1.10 |      |     |    |     | 10.48  |
| Columbia          | .24           | .50  | .03  | .04  | 1.35 | 1.21 | .77  | .06  | .13  |      | .79  | .23  | .05  |      | .02  |      |     |      |     | 1.47 |     |      |      | .04  |      |      |      |      |     |    |     | 7.69   |
| Conway            | .20           | .15  | 1.60 | .73  | 2.30 | .30  | T.   | T.   | .90  | .20  |      |      | .05  |      |      | .20  |     | .95  |     |      |     |      |      | 1.10 | .20  |      | .15  | .20  | .25 |    |     | 9.48   |
| Darlington        |               |      |      |      |      |      |      | .66  | .15  | .04  | T.   | .22  |      |      |      |      |     |      |     | .10  |     |      |      | .69  | .01  |      | .16  | .73  | .13 |    |     | 5.56   |
| Dillon            | .70           | .28  | 1.45 | .15  |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     | 1.20 |     |      |      |      |      |      |      |      |     |    |     |        |
| Due West          |               | .14  | .06  |      | .85  |      | 2.05 | 2.20 |      | .70  | T.   |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 7.88   |
| Edisto            | .16           | .65  | .32  | 1.03 | .65  | 1.50 |      | .09  | .16  |      |      | .14  | .06  |      | .12  | .10  | .11 | 1.70 |     | .15  |     |      |      | .10  | .45  |      |      |      |     |    |     | 13.43  |
| Effingham         | .20           | .70  | .60  | .82  | 1.24 | .76  | .10  | .85  | 2.03 | .10  |      | .98  | 2.10 |      |      | .90  |     |      |     | .25  |     |      |      |      |      |      |      |      |     |    |     |        |
| Enore             |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     |        |
| Florence          | .03           | .03  | 1.65 | .28  | .54  | 1.08 | .03  | .51  | T.   | .08  |      |      | .62  | .22  |      | .64  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 7.41   |
| Gaffney           | .15           | .12  | .45  |      | .35  | .30  | 1.0  | 1.52 | .30  | .84  | .20  | .72  |      |      | .03  | .70  |     |      |     | .30  | .05 |      |      |      |      |      |      |      |     |    |     | 9.86   |
| Georgetown        |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 4.63   |
| Gillisonville     | .34           | .56  | .23  | 1.78 | .80  | .78  | .03  | 1.05 | .35  | .73  | T.   |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 8.75   |
| Greenville        | 2.88          | T.   | 1.72 |      | .37  | .40  | .32  | 2.30 | .20  | .53  | .05  | T.   | .10  |      | .63  |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 12.10  |
| Greenwood         |               |      | 1.85 | .60  | 2.10 | .20  |      | 2.88 | .99  | .07  | T.   |      |      | .05  |      | .19  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 11.02  |
| Heath Springs     | 2.30          | 1.90 | .98  | .22  | .35  | .01  | .80  | .10  | .13  | .04  | .23  |      |      |      |      | .27  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 12.09  |
| Kingstree(1)      |               | .92  | 1.06 | .26  | .93  | .16  | .12  | .35  | .14  | T.   | .93  | T.   | .18  |      |      | .27  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 6.82   |
| Kingstree(2)      |               | 1.20 | .90  | .20  | 1.07 | .14  | .13  | .40  | .22  | .08  | 1.10 | T.   | .21  |      |      | .21  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 7.65   |
| Liberty           | T.            | .30  | T.   |      | .40  |      | 2.20 | 2.02 | T.   | .10  | .22  | T.   | .21  |      |      | .80  | T.  |      |     | .30  |     |      |      |      |      |      |      |      |     |    |     | 8.64   |
| Little Mountain   |               | 1.21 |      | .30  | 1.90 |      | 1.05 | .73  | .20  | .04  | .13  |      |      |      | .72  |      |     |      |     | .01  |     |      |      |      |      |      |      |      |     |    |     | 7.20   |
| Lugoff            |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     |        |
| Newberry          | T.            | .05  | .01  | .58  | .35  | T.   | 1.50 | .67  | .52  | .02  | .12  | .01  |      |      | .38  |      |     |      |     | .02  |     |      |      |      |      |      |      |      |     |    |     | 6.78   |
| Pelzer            |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     |        |
| Pinopolis         |               | 1.81 |      | 1.43 | .50  | .50  | 1.00 | .50  | .23  |      | .56  | .10  |      | 1.27 |      |      |     |      |     | .67  |     |      |      |      |      |      |      |      |     |    |     | 11.43  |
| St. Georges       | .15           |      | .15  | .20  | .10  | .13  | .30  | .60  | .11  | .40  | .09  | .40  | .40  |      |      | .40  | .10 |      |     | .85  | .11 |      |      |      |      |      |      |      |     |    |     | 6.75   |
| St. Matthews      |               |      | .10  | .19  | .33  | .29  | .16  | 2.23 | .29  | .95  | .35  | .43  | .05  |      |      | .06  | .03 |      |     | .16  | .40 |      |      |      |      |      |      |      |     |    |     | 7.67   |
| St. Stephens      | .11           | .19  | 1.45 | .45  | .15  | 1.07 | 1.25 | .06  | .07  | .48  |      |      | 1.00 | .20  |      | 1.90 |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 10.96  |
| Saluda            | .27           | .04  | .01  | .47  | .93  | .91  | .97  | 2.00 | .74  | .80  |      |      |      |      |      | .54  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 8.87   |
| Santee            | .21           | .06  |      | .05  |      | 1.64 | 1.82 | .41  | .80  | .25  | .70  |      |      |      | 1.01 |      |     |      |     | .12  |     |      |      |      |      |      |      |      |     |    |     | 9.57   |
| Savannah, Ga.     | .55           | T.   | .92  | .54  | .23  | .72  | T.   | .01  | .09  | .01  |      | .02  | .07  | .09  | .11  | .13  |     |      | .57 | .06  | .41 |      | 1.05 | .02  |      |      |      |      |     |    |     | 6.46   |
| Severn            | T.            | .23  | T.   | 1.11 | .04  |      | .54  | .10  | .78  | T.   | .02  | .80  |      |      | .32  |      |     |      |     | .32  |     |      |      |      |      |      |      |      |     |    |     | 5.65   |
| Smiths Mills      | .75           | .20  | .40  | 2.80 | 2.50 | .20  | .10  |      | 1.30 | .35  | .28  | T.   | .20  |      | .15  | .15  | .18 | .90  |     | .12  |     |      |      |      |      |      |      |      |     |    |     | 11.90  |
| Society Hill      |               |      | .05  | .60  | 1.66 |      | 1.62 | .22  | .24  |      | 1.35 | .03  |      |      | .91  |      |     |      |     | .08  | .18 |      |      |      |      |      |      |      |     |    |     | 9.64   |
| Spartanburg       | 1.38          | 1.94 | 1.07 |      | T.   | .10  | .87  | 1.65 | .40  | .33  |      | .33  |      |      |      |      |     |      |     | .09  |     |      |      |      |      |      |      |      |     |    |     | 11.79  |
| Stateburg         |               | .27  | .90  | 2.01 | .44  |      | .64  | .35  | .42  |      | .65  | 1.10 |      |      |      |      |     | .01  |     | .15  | .01 |      | .38  | .36  |      |      |      |      |     |    |     | 9.18   |
| Summerville       | .01           | 1.86 | .08  | 1.73 | .05  | .67  | .08  | .67  | .20  | .25  |      | .19  | .03  | T.   | .06  |      | .05 | .35  | .03 |      |     |      |      |      | .81  | .02  |      |      |     |    |     | 8.68   |
| Sumter            |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     |        |
| Trenton           | .07           |      |      | 1.35 | .10  |      | 1.11 | .33  | 2.35 | .45  |      |      |      |      |      | .46  |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 8.30   |
| Trial             |               | .02  | T.   | .12  | .04  | .82  | .15  | .58  | .10  | 1.10 |      | .49  |      |      | 1.78 |      | .10 |      |     | .17  | T.  |      |      |      |      |      |      |      |     |    |     | 6.53   |
| Walhalla          | .05           |      | .80  | .10  | .90  |      | 1.75 | 1.80 | .15  | .25  | .12  | T.   | T.   |      | 1.30 |      |     |      |     | .10  | .04 |      |      |      |      |      |      |      |     |    |     | 10.46  |
| Walterboro        | .11           | .57  | .02  | .65  | 1.15 | .41  | .01  | .35  | .37  | .67  |      | .64  | T.   |      |      | .20  | T.  | .88  | .16 |      |     |      |      |      |      |      |      |      |     |    |     | 11.22  |
| Wilmington, N. C. | T.            |      | 1.28 | .51  | 2.22 | .11  | T.   | .04  | .14  | .04  |      |      |      |      | .02  |      | .10 | .80  |     | .32  |     |      |      |      |      |      |      |      |     |    |     | 6.77   |
| Winnsboro         | T.            | .46  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     |      |     |      |      |      |      |      |      |      |     |    |     | 4.96   |
| Winthrop College  | .15           | 1.64 | .04  | .13  | .20  |      | 1.90 | 1.58 | .26  | .14  | .42  | T.   |      |      | .08  | .11  |     |      |     | T.   |     |      |      |      |      |      |      |      |     |    |     | 10.99  |
| Yemassee          | .06           | .37  | .83  | T.   | 1.33 | 1.42 | .09  | T.   | .04  | .22  | 1.33 | T.   | .12  |      |      | .30  |     |      |     | .02  | .49 |      |      |      |      |      |      |      |     |    |     | 7.53   |
| Yorkville         |               | .31  |      | .62  | .27  |      | 1.70 | 1.83 | .77  | .10  | .38  |      |      |      | .60  |      |     |      |     | .13  |     |      |      |      |      |      |      |      |     |    |     | 11.30  |

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR SEPTEMBER, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



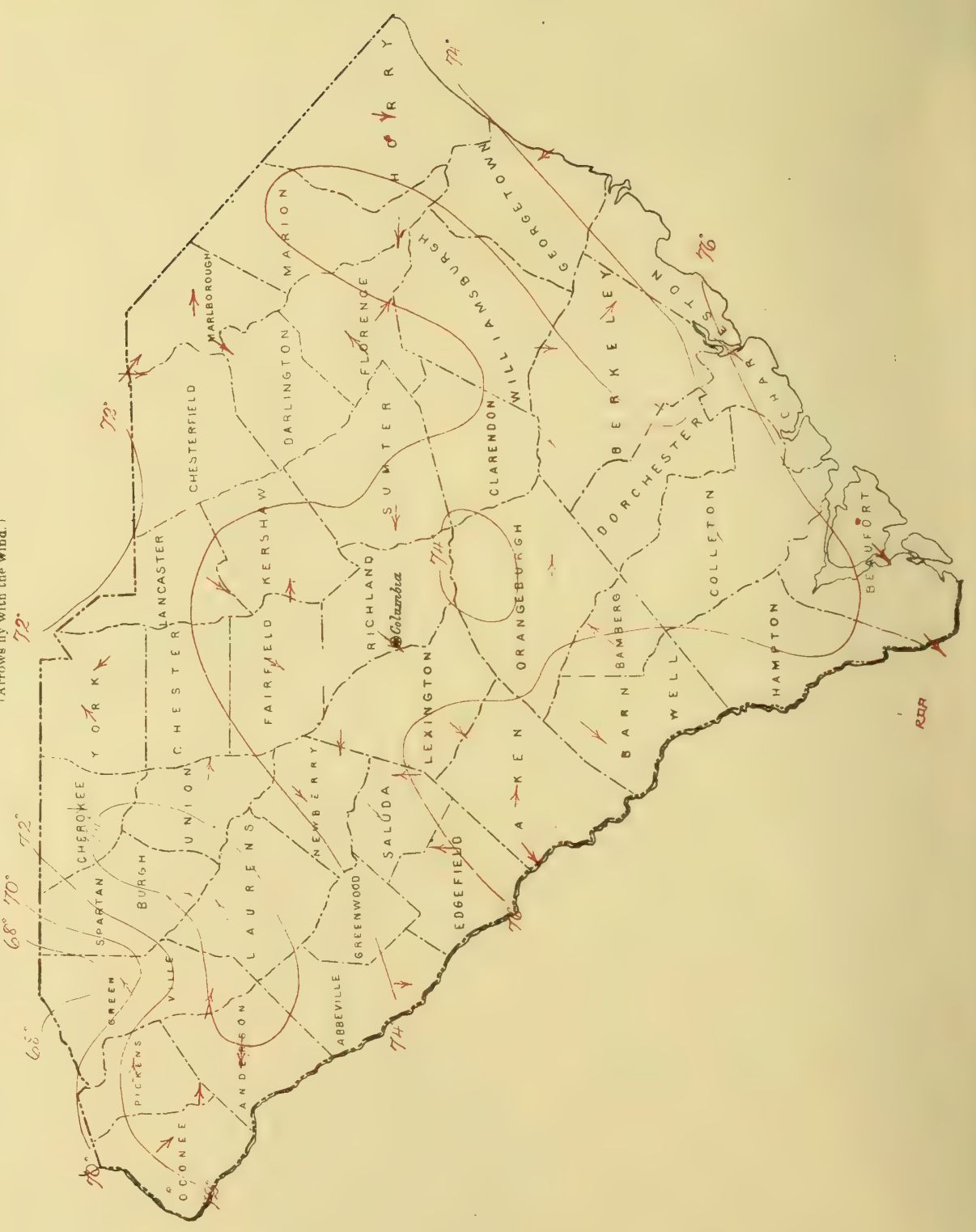
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

OCTOBER 19, 1904



MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR SEPTEMBER, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VII. COLUMBIA, S. C., SEPTEMBER, 1904. No. 9.

## PROGRESS OF FARM WORK.

While the closing dates of September, 1904, had midsummer heat, and were the warmest on record for those dates in a period of from 10 to 33 years, the month as a whole was only slightly warmer than usual, and had a wide range in temperature, especially during the last decade. Light frosts were reported from Newberry county on the 23-24th, which is unusually early. This variability in temperature had no noticeably harmful effect on crop development, although it undoubtedly hastened the maturity of growing crops and the opening of cotton, some of which opened prematurely from the effects of the heat.

The precipitation was below normal, with deficiencies ranging from one to over three inches, except in the north-eastern group of counties where it was excessive, due to torrential rains during the passage of a West India hurricane that impinged on the coast between Charleston and Georgetown during the night of the 13-14th. This storm was accompanied by gales that damaged crops severely in Georgetown, Horry, Marion and Marlboro counties. The aggregate damage to crops is estimated at between a half and one million dollars.

Drought conditions became severe in the western and central counties, and only slightly less so in the southern ones, by the close of the month, and adversely affected the development of root and very late forage crops, late corn, peas, and some cotton. Only the very late corn and cotton were materially injured, amounting to less than 10 per cent. of the entire acreage, the rest having reached maturity before the drought became so severe.

The weather was favorable, after the 6th in the central and western counties and the 14th in the eastern ones, for harvesting and haying, gathering corn and picking cotton, but was too dry for fall plowing or seeding operations.

The bulk of the cotton opened and was picked during the month, except in the western counties where less than half the bolls opened by the end of the month. There was some premature opening due to the excessive heat during the closing days, and to the drought, although most of the bolls became full grown and opened normally. The weather was entirely favorable on sea-island cotton.

Haying made rapid progress and was practically finished in all parts under very favorable weather conditions, and the crop was saved in excellent condition. Rice harvest also progressed rapidly, and was practically finished. Only a small portion of the corn crop was housed, although nearly all ripened, with the ears well filled and the kernels plump and hard. There was too little rain for fall truck to thrive, and for the quick germination of late planted seed, especially in the southern parts of the coast truck regions. Minor crops were generally too nearly matured to have been affected by the drought, and are, as a rule, yielding well. Pastures failed rapidly.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for September, 1904, was 75.8°, which is 0.2° above normal. The highest local mean was 77.6° at Aiken; the lowest 69.6° at Greenville. The monthly extremes were a maximum of 101° at Anderson on the 30th, and a minimum of 44° at Greenville and Santuc on the 24th, making the State range 57°. The greatest local monthly range was 51° at Anderson, Gaffney, Newberry, Santuc and Seivern, the least was 36° at Beaufort, Charleston and Summerville. The mean of the daily maximum temperatures was 85.8°, and of the daily minimum temperatures was 65.8°, making the average daily range 20°.

Light Frost.—Newberry, 23, 24.

## Precipitation, in Inches.

The precipitation averaged 2.46 inches, which is 1.65 below normal. The greatest local amount was 9.50 at Smiths Mills, the least was "Trace" at Little Mountain. The greatest 24-hour fall was 7.60 at Smiths Mills on the 13-14th. The average number of days with 0.01, or more, precipitation was 4, ranging from none at Little Mountain to 9 at Walterboro.

Excessive Precipitation.—Beaufort, 5th, 2.50 in 24 hrs.; Bennettsville, 14th, 3.00 in 24 hrs.; Conway, 13-14th, 4.70 in 22 hrs.; Effingham, 13-14th, 4.70 in 24 hrs.; Georgetown, 13-14th, 5.95 in 24 hrs.; Seivern, 6th, 3.58 in 15 hrs.; Smiths Mills, 13-14th, 7.60 in 24 hrs.; Society Hill, 4th, 2.51 in 24 hrs.; Dillon, 14th, 7.24 in 24 hrs.

Weather.—The average number of clear days was 19, of partly cloudy 7, and of cloudy ones 4.

Winds.—The prevailing direction of the wind was from the northeast at 18 stations, from the west at 9, from the northwest at 6, from the southwest at 5, from the north and east at 4 each, and from the south at 1 station.

High Winds.—Bowman, 4, 14; Charleston, Cheraw, Columbia, Conway, Georgetown, Society Hill, Trial, Yorkville and Dillon, 14; Saluda, 14, 22; Summerville, 13.

## MISCELLANEOUS PHENOMENA (with dates).

Lunar Coronæ.—Santuc, 25, 26.

Lunar Rainbow.—Columbia, 26.

Parhelion.—Stateburg, 20th.

Earthquakes (slight).—Summerville, 5th, 10 a. m.; 10th, 9:27 a. m.



Solar Halos.—Charleston, 6, 9, 27, 30; Stateburg, 3, 18, 27.

Fogs, Dense.—Beaufort, Charleston, Heath Springs, Summerville, 29; Blackville, 19, 20, 29; Bowman, 1, 2, 3; Cheraw, 2; Clarks Hill, 19; Newberry, Saluda, 17, 19; Seivern, 2, 13, 19, 20; Society Hill, 2, 3, 29; Stateburg, 2, 19, 20; Trial, 9, 29; Dillon, 3, 19, 27, 28, 29.

Thunderstorms.—Beaufort, 4, 5, 6, 7, 13, 19, 20, 21; Blackville, Stateburg, 4, 5, 20; Bowman, 4, 21; Camden, Florence, Trial, Yorkville, 5; Cheraw, 4; Heath Springs, Trenton, 20; Dillon, 5, 20; Liberty, 4, 8, 21, 26, 27; Newberry, 4, 20; Saluda, 3, 4; Seivern, 5, 6; Summerville, 20, 21.

There was a total of 38 thunderstorms on 12 dates as follows: 1 on the 3rd, 7th, 8th, 13th, 19th, 26th, 27th; 8 on the 4th and 20th; 9 on the 5th; 2 on the 6th, and 4 on the 21st.

In addition to the above, Charleston reported storms on the 5, 6, 7, 19, 20, 21st; Columbia on the 4-5th.

Barometer and Wind Table for September, 1904.

| STATIONS              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....     | 30.07      | 30.45    | 23    | 29.65   | 30    | 3.462           | 4.8             | 27                | sw.        | 4     |
| Charleston.....       | 30.09      | 30.42    | 23    | 29.78   | 14    | 6.987           | 9.7             | 50                | n.         | 14    |
| Charlotte, N. C.....  | 30.12      | 30.58    | 23    | 29.84   | 30    | 3.936           | 5.5             | 19                | sw.        | 20    |
| Columbia.....         | 30.10      | 30.49    | 23    | 29.83   | 30    | 6.035           | 8.5             | 42                | nw.        | 14    |
| Savannah, Ga.....     | 30.09      | 30.38    | 23    | 29.84   | 30    | 4.724           | 6.7             | 28                | ne.        | 23    |
| Wilmington, N. C..... | 30.07      | 30.48    | 23    | 29.76   | 30    | 4.944           | 6.9             | 45                | s.         | 14    |
| Averages.....         | 30.09      | 30.58    | 23    | 29.65   | 30    | 5.013           | 7.0             | 50                | n.         | 14    |

#### REMARKS BY OBSERVERS.

ALLENDALE.—During the latter part of the month the middle of the days were hot and the nights cool; cotton about all gathered, although some still being picked. BARKSDALE.—Drought caused much cotton to open prematurely; it has been too dry to sow grains; the cotton crop is very short. BATESBURG.—The weather was very favorable for haying; early cotton about all open, late plantings opening fast; minor crops needed rain at close of the month. BEAUFORT.—The mean temperature was 0.9° below normal; the accumulated deficiency since January 1st is 439°; the September deficiency in precipitation was 0.90 inch; the accumulated deficiency is 1.65 inches; the month was very favorable for picking cotton and curing hay; it was too hot and dry for fall planting. BOWMAN.—September has been a dry month, no heavy rains whatever; unusually fine weather for haying and for picking cotton; cotton yielding well. CLARKS HILL.—The month was unusually favorable for picking cotton and for haying; rain was needed for gardening and for preparing lands for grain. GEORGETOWN.—On the 14th from 1 a. m. to 4:30 a. m. winds from the northeast, a lull and shifting to west and northwest at 6:30 a. m.; greatest velocity probably between 60 and 70 miles per hour. HEATH SPRINGS.—At the close of the month much of the

cotton was open, picked and sold; most of the corn was ready for harvest. LIBERTY.—Precipitation very light, late crops needed rain, especially turnips; cotton deteriorated greatly, and there is no top crop; a large crop of peavine hay was saved in fine condition. LITTLE MOUNTAIN.—The month had the least rainfall of any on record at this station, the drought is extreme, and fall crops are dying; in many fields cotton is all open and picked; no oats were sown. NEWBERRY.—A very dry month; cotton opened very fast and picking was rushed. SOCIETY HILL.—The month was very favorable for harvesting crops; much cotton and pea vine hay was gathered in fine condition; the corn crop is excellent. STATEBURG.—Most of the months rain fell on the 4-5-6th, after which the weather was most favorable for harvesting the various crops as they ripened; lack of moisture will shorten the cotton crop to some extent, as well as late food and forage crops. TRENTON.—Precipitation 3.08 inches less than normal for September, and 13.57 inches less than the average for the first 9 months of the year.

AUGUST ERRORS.—The following corrections should be made in the August, 1904, Monthly Report: Page 8, Anderson, precipitation on the 19th omitted, should be 1.10, and total 11.13 should be 12.13; also on page 5, total 11.13 should be 12.13. Page 8, Clemson College, precipitation on 2nd 1.18 should be 0.18, and total 10.48 should be 9.48; also on page 5, total 10.48 should be 9.48. Page 6, Summerville, mean minimum 68.7° should be 68.8°, and on page 5, mean temperature 77.1° should be 77.2°. Page 6, Sumter, mean minimum 70.0° should be 69.8°, and on page 5, mean temperature 81.9° should be 81.8°.

#### COL. EVANDER RODERIC McIVER.

Col. McIver died at his beautiful home near Darlington on September 14, 1904.

He served his State from early manhood to the time of his death in many and various capacities. First as a soldier in active service, then in civil life in a number of positions, the highest of which was State Treasurer. He was a member of several organizations for the advancement of agricultural interests of his State and his county. He served as President of the South Carolina Agricultural Society for several terms and remained a director to the time of his death. He was a charter member of the Darlington Agricultural Society and always took an active part in its management.

The greatest good that Col. McIver did for his community was, probably, in the example he set as a scientific farmer and as a breeder of blooded stock of all domestic kinds. He was largely an experimental farmer, but every experiment he tried was to follow out a well conceived and thoroughly matured plan or theory, with a definite and practical object in view, and he demonstrated that such experiments may be made both educational and profitable. In this way he became connected with the Climate and Crop Service of the Weather Bureau as a voluntary observer for he found that the records collected and published by the Weather Bureau were of prime importance in carrying out his crop and variety experiments.

Col. McIver was not a ready writer, and it is a matter of regret that he did not write more freely for publication the valuable lessons in scientific farming he was so well qualified to give. His weekly reports as a climate and crop correspondent were absolutely true, according to his best judgment, which was seldom wrong.

His death was a distinct loss to his community where he was so well loved, to his State in which he was honored, and to the Weather Bureau that so highly valued his cooperation.



CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1904.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       | Sky.                        |                    |                    |                            | Observers.             |                     |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|------------------------|---------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall—accumulated. | Number rainy days. | Number clear days. | Number partly cloudy days. |                        | Number cloudy days. |
| Aiken                                 | Aiken        | 505             | 3                       | 77.6                               | +3.6                       | 98       | *28   | 51      | 24    | 34                       | 0.10   | -4.34                      | 0.40                  | 1                           | 23                 | 1                  | 4                          | W. C. E. Carmen.       |                     |
| Allendale                             | Barnwell     | 186             | 10                      | 76.6                               | +1.3                       | 95       | 30    | 55      | *23   | 25                       | 2.30   | -1.96                      | 1.15                  | 2                           | 22                 | 1                  | 7                          | C. A. Glover.          |                     |
| Anderson                              | Anderson     | 764             | 3                       | 75.6                               | +3.7                       | 104      | 30    | 50      | 23    | 31                       | 0.63   | -3.07                      | 0.42                  | 3                           | 22                 | 8                  | 0                          | R. B. Dean.            |                     |
| Angusta, Ga.                          | Richmond     | 134             | 33                      | 77.1                               | +2.7                       | 96       | 30    | 55      | 23    | 34                       | 1.42   | -2.51                      | 1.24                  | 4                           | 19                 | 8                  | 3                          | Weather Bureau.        |                     |
| Barksdale                             | Laurens      | 780             | 3                       | 71.1                               | -0.9                       | 94       | 28    | 48      | 23    | 35                       | 0.19   | 0.19                       | 0.19                  | 1                           | 21                 | 9                  | 0                          | J. T. Garrett.         |                     |
| Batesburg                             | Lexington    | 656             | 16                      | 76.2                               | +2.2                       | 99       | *28   | 49      | 23    | 35                       | 1.22   | -3.04                      | 0.17                  | 4                           | 17                 | 5                  | 8                          | E. J. Hite.            |                     |
| Beaufort                              | Beaufort     | 28              | 18                      | 76.3                               | -0.9                       | 96       | 30    | 60      | *23   | 23                       | 4.44   | -0.90                      | 2.50                  | 5                           | 21                 | 8                  | 1                          | S. M. Benton.          |                     |
| Bennettsville                         | Marlboro     | 28              | 3                       | 76.6                               | -0.9                       | 95       | *14   | 57      | 9     | 30                       | 3.55   | 3.00                       | 1.61                  | 3                           | 26                 | 1                  | 3                          | Jno. L. McCall.        |                     |
| Blackville                            | Barnwell     | 296             | 16                      | 76.4                               | +1.2                       | 98       | *28   | 50      | 24    | 34                       | 3.17   | -0.82                      | 1.04                  | 6                           | 19                 | 10                 | 1                          | G. D. C. Lange.        |                     |
| Bowman                                | Orangeburg   | 160             | 3                       | 75.1                               | ...                        | 96       | 30    | 50      | 24    | 30                       | 0.93   | 0.29                       | 0.29                  | 7                           | 23                 | 5                  | 2                          | B. O. Evans.           |                     |
| Calhoun Falls                         | Abbeville    | 508             | 11                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 0.70   | -3.34                      | 0.44                  | 2                           | 28                 | 0                  | 2                          | P. J. Pfeiffer.        |                     |
| Candler                               | Kershaw      | 222             | 38                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 1.76   | -2.13                      | 0.90                  | 4                           | 18                 | 5                  | 7                          | J. C. Whitaker.        |                     |
| Charleston                            | Charleston   | 48              | 35                      | 76.6                               | +0.6                       | 94       | 30    | 58      | 23    | 20                       | 3.17   | -3.42                      | 1.12                  | 6                           | 10                 | 13                 | 7                          | Weather Bureau.        |                     |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 26                      | 72.3                               | +1.2                       | 90       | 12    | 46      | 23    | 27                       | 1.78   | -1.59                      | 0.90                  | 7                           | 12                 | 13                 | 5                          | Weather Bureau.        |                     |
| Cheraw (1)                            | Chesterfield | 144             | 16                      | 72.4                               | +1.2                       | 96       | 3     | 46      | 23    | 34                       | 4.18   | +0.38                      | 2.38                  | 3                           | 18                 | 2                  | 10                         | W. R. Godfrey.         |                     |
| Cheraw (2)                            | ...          | 111             | 11                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 4.80   | +0.78                      | 2.00                  | 3                           | 19                 | 7                  | 4                          | Jno. H. Powe.          |                     |
| Clarks Hill                           | Edgefield    | 456             | 2                       | 75.2                               | ...                        | 95       | 29    | 51      | *23   | 35                       | 0.46   | 0.22                       | 0.22                  | 3                           | 24                 | 3                  | 3                          | Wm. S. Middleton.      |                     |
| Clemson College                       | Oconee       | 850             | 13                      | 73.1                               | -0.2                       | 94       | *28   | 46      | 24    | 40                       | 1.89   | -2.04                      | 0.92                  | 3                           | 6                  | 20                 | 4                          | Prof. C. C. Newman.    |                     |
| Columbia                              | Richland     | 351             | 17                      | 75.3                               | +0.3                       | 94       | 30    | 50      | 23    | 26                       | 2.50   | -1.62                      | 1.48                  | 5                           | 14                 | 12                 | 4                          | Central Office.        |                     |
| Conway                                | Horry        | 25              | 13                      | 73.8                               | ...                        | 92       | 30    | 50      | 23    | 30                       | 5.55   | +1.93                      | 4.70                  | 4                           | 28                 | 0                  | 2                          | McQ. Quattlebaum.      |                     |
| *Darlington                           | Darlington   | 175             | 9                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 8.66   | 7.24                       | ...                   | 5                           | ...                | ...                | ...                        | A. E. Rowell.          |                     |
| Dillon                                | Marion       | 100             | 0                       | 74.2                               | ...                        | 95       | 30    | 47      | 24    | 35                       | ...    | ...                        | ...                   | ...                         | ...                | ...                | ...                        | Rev. O. Y. Bonner.     |                     |
| Due West                              | Abbeville    | 710             | 3                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 2.10   | 1.18                       | 1.00                  | 5                           | 17                 | 6                  | 7                          | M. Thompson.           |                     |
| Edisto                                | Bamberg      | 127             | 11                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 6.85   | +3.45                      | 4.70                  | 6                           | 20                 | 5                  | 5                          | H. B. McCall.          |                     |
| Edinham                               | Florence     | 106             | 12                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                        | ...                   | ...                         | 19                 | 6                  | 5                          | E. P. Porter.          |                     |
| Enore                                 | Spartanburg  | 987             | ...                     | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                        | ...                   | ...                         | 4                  | 24                 | 1                          | 5                      | H. K. Gilbert.      |
| Florence                              | Florence     | 136             | 16                      | 73.8                               | -0.9                       | 95       | 30    | 48      | *23   | 30                       | 5.46   | +1.78                      | 1.75                  | 3                           | ...                | ...                | ...                        | B. F. Camp.            |                     |
| Galley                                | Cherokee     | 893             | 8                       | 73.6                               | ...                        | 96       | 29    | 45      | 24    | 41                       | 2.08   | -1.84                      | 1.82                  | 3                           | ...                | ...                | ...                        | Reid Whitford.         |                     |
| Georgetown                            | Georgetown   | 12              | 11                      | 74.4                               | -1.4                       | 91       | 30    | 54      | 22    | 24                       | 5.95   | +2.91                      | 5.10                  | ...                         | ...                | ...                | ...                        | Sam P. Salties.        |                     |
| Gillisonville                         | Hampton      | 50              | 9                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                        | ...                   | ...                         | ...                | ...                | ...                        | Mrs. S. A. Crittenden. |                     |
| Greenville                            | Greenville   | 989             | 12                      | 60.6                               | -2.0                       | 90       | 29    | 44      | 24    | 34                       | 2.45   | -1.62                      | 2.38                  | 2                           | 20                 | 5                  | 5                          | M. M. Calhoun.         |                     |
| *Greenwood                            | Greenwood    | 671             | 16                      | 73.6                               | +0.1                       | 92       | 30    | 49      | *23   | 35                       | 1.79   | -2.77                      | 1.16                  | 3                           | 25                 | 0                  | 5                          | J. A. Weaver.          |                     |
| Heath Springs                         | Lancaster    | ...             | 3                       | 71.6                               | ...                        | 92       | *1    | 54      | 23    | 22                       | 1.46   | 0.84                       | 0.84                  | 3                           | 21                 | 5                  | 4                          | J. A. Scott.           |                     |
| Kingstree (1)                         | Williamsburg | 54              | 16                      | 74.2                               | -1.1                       | 96       | 30    | 46      | 17    | 39                       | 2.06   | -1.96                      | 1.10                  | 3                           | 20                 | 5                  | 5                          | A. O. Matthews.        |                     |
| Kingstree (2)                         | ...          | 54              | 10                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 2.15   | -1.10                      | 1.03                  | 4                           | 19                 | 5                  | 6                          | Jno. T. Boggs.         |                     |
| Liberty                               | Pickens      | 900             | 10                      | 73.6                               | +0.4                       | 94       | 29    | 48      | 24    | 31                       | 0.44   | -5.21                      | 0.30                  | 2                           | 20                 | 9                  | 1                          | John M. Sease, M. D.   |                     |
| Little Mountain                       | Newberry     | 711             | 11                      | 75.6                               | -0.3                       | 96       | *29   | 49      | 23    | 30                       | T.     | -3.50                      | T.                    | ...                         | 0                  | 23                 | 7                          | W. J. Burdell, M. D.   |                     |
| Lugoff                                | Kershaw      | 168             | 3                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                        | ...                   | ...                         | ...                | ...                | ...                        | W. G. Peterson.        |                     |
| Newberry                              | Newberry     | 502             | 0                       | 74.4                               | +0.5                       | 98       | 30    | 47      | 24    | 35                       | 0.30   | -3.34                      | 0.19                  | 2                           | 13                 | 13                 | 4                          | John M. Ward.          |                     |
| Pelzer                                | Anderson     | 873             | ...                     | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 0.30   | 0.20                       | ...                   | 2                           | 17                 | 6                  | 7                          | E. P. Ravenel.         |                     |
| *Pinopolis                            | Berkeley     | 54              | 11                      | 73.4                               | -0.8                       | 88       | 2     | 56      | *23   | ...                      | 0.91   | -2.77                      | 0.55                  | 7                           | 16                 | 7                  | 7                          | W. B. Raysor.          |                     |
| St. Georges                           | Dorchester   | 109             | 16                      | 74.8                               | -0.1                       | 95       | 30    | 53      | 18    | 32                       | 0.93   | -4.32                      | 0.40                  | 5                           | 21                 | 6                  | 3                          | J. S. Warnamaker.      |                     |
| St. Matthews                          | Orangeburg   | 269             | 16                      | 73.9                               | -1.2                       | 96       | 30    | 52      | *23   | 35                       | 2.55   | -1.04                      | 1.80                  | 6                           | 20                 | 4                  | 6                          | C. T. Shuler.          |                     |
| St. Stephens                          | Berkeley     | 73              | 12                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 1.96   | -1.52                      | 1.20                  | 6                           | 19                 | 2                  | 9                          | Alvin Etheridge.       |                     |
| Saluda                                | Saluda       | 536             | 3                       | 74.5                               | ...                        | 95       | *28   | 45      | 24    | 39                       | 1.00   | 0.63                       | 0.63                  | 5                           | 22                 | 4                  | 3                          | E. W. Jeter.           |                     |
| Santee                                | Union        | 512             | 11                      | 73.2                               | 0.0                        | 95       | 29    | 44      | 24    | 40                       | 1.00   | 2.40                       | 0.66                  | 4                           | 21                 | 8                  | 1                          | Weather Bureau.        |                     |
| Savannah, Ga.                         | Chatham      | 71              | 35                      | 77.6                               | +1.8                       | 95       | 30    | 61      | 24    | 24                       | 2.86   | -3.26                      | 1.80                  | 5                           | 17                 | 10                 | 3                          | Geo. C. Gunter.        |                     |
| Severn                                | Aiken        | 482             | 3                       | 74.5                               | -2.3                       | 97       | *28   | 46      | 24    | 40                       | 3.84   | +0.83                      | 3.58                  | 5                           | 15                 | 13                 | 2                          | H. van Keuren.         |                     |
| Smiths Mills                          | Williamsburg | 62              | 9                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 9.50   | +6.16                      | 7.60                  | 5                           | 19                 | 4                  | 7                          | J. J. Lucas.           |                     |
| Society Hill                          | Darlington   | 192             | 13                      | 72.4                               | -0.8                       | 90       | 30    | 49      | 22    | 27                       | 6.86   | +2.44                      | 2.51                  | 4                           | 24                 | 2                  | 4                          | F. P. Robinson.        |                     |
| Spartanburg                           | Spartanburg  | 875             | 13                      | 74.0                               | +1.4                       | 95       | 29    | 48      | *23   | 39                       | 1.47   | -2.70                      | 0.62                  | 3                           | 22                 | 2                  | 6                          | W. W. Anderson, M. D.  |                     |
| Stateburg                             | Sumter       | 500             | 27                      | 74.4                               | +0.7                       | 93       | 30    | 50      | 23    | 29                       | 4.30   | +1.13                      | 2.37                  | 6                           | 13                 | 10                 | 4                          | Miss L. R. Gadsden.    |                     |
| Summerville                           | Dorchester   | 75              | 7                       | 73.8                               | -1.2                       | 91       | 30    | 55      | 22    | 27                       | 2.81   | -0.33                      | 1.21                  | 6                           | 21                 | 5                  | 7                          | Wm. D. Shaw.           |                     |
| Sumter                                | Sumter       | 160             | 3                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                        | ...                   | ...                         | ...                | ...                | ...                        | C. A. Long.            |                     |
| *Trenton                              | Edgefield    | 620             | 11                      | 75.4                               | -1.6                       | 94       | 30    | 50      | 23    | 24                       | 0.68   | -3.08                      | 0.33                  | 3                           | 17                 | 11                 | 2                          | Etsell Gaillard.       |                     |
| Walhalla                              | Berkeley     | 85              | 18                      | 74.2                               | +0.7                       | 95       | 30    | 51      | 44    | 34                       | 1.75   | -2.22                      | 0.80                  | 7                           | 16                 | 9                  | 5                          | J. D. Isbell.          |                     |
| Walterboro                            | Oconee       | 1061            | 1                       | 72.5                               | +2.1                       | 91       | 29    | 47      | 25    | 38                       | 1.05   | -3.73                      | 0.65                  | 6                           | 17                 | 9                  | 4                          | J. A. Westerberg.      |                     |
| Wilmington, N. C.                     | Colleton     | ...             | 13                      | 74.9                               | ...                        | 96       | 30    | 55      | 25    | 31                       | 4.00   | ...                        | 1.42                  | 9                           | 19                 | 9                  | 2                          | Weather Bureau.        |                     |
| Winnsboro                             | New Hanover  | 52              | 35                      | 73.4                               | -0.2                       | 90       | 30    | 48      | 23    | 27                       | 1.75   | -4.67                      | 1.04                  | 7                           | 15                 | 12                 | 3                          | John W. Seigler.       |                     |
| Winthrop College                      | Fairfield    | 545             | 15                      | 74.7                               | +1.8                       | 94       | 30    | 50      | 23    | 29                       | 0.80   | -3.03                      | 0.65                  | 2                           | 20                 | 10                 | 0                          | Geo. B. Green.         |                     |
| Yemassee                              | York         | 690             | 5                       | 73.1                               | -0.1                       | 92       | *28   | 45      | 23    | 28                       | 0.45   | -3.67                      | 0.40                  | 2                           | 21                 | 9                  | 0                          | J. G. Hutson.          |                     |
| Yorkville                             | Beaufort     | 23              | 9                       | 75.3                               | -1.2                       | 97       | 30    | 51      | 18    | 35                       | 1.86   | 1.16                       | 1.63                  | 2                           | 23                 | 3                  | 4                          | J. R. Schorb.          |                     |
|                                       | York         | 680             | 16                      | 73.8                               | +0.2                       | 94       | 29    | 46      | 23    | 32                       | 0.46   | -3.92                      | 0.31                  | 2                           | 8                  | 17                 | 5                          | ne.                    |                     |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 75.8                               | +0.2                       | 101      | 30    | 44      | 24    | 40                       | 2.46   | -1.65                      | 7.60                  | 4                           | 19                 | 7                  | 4                          | ne.                    |                     |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
 § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc. † Not used in the means or summary, apparently too high.  
 ++ Mean temperature at Bennettsville is apparently too high, and has not been used in the means or in the summary.



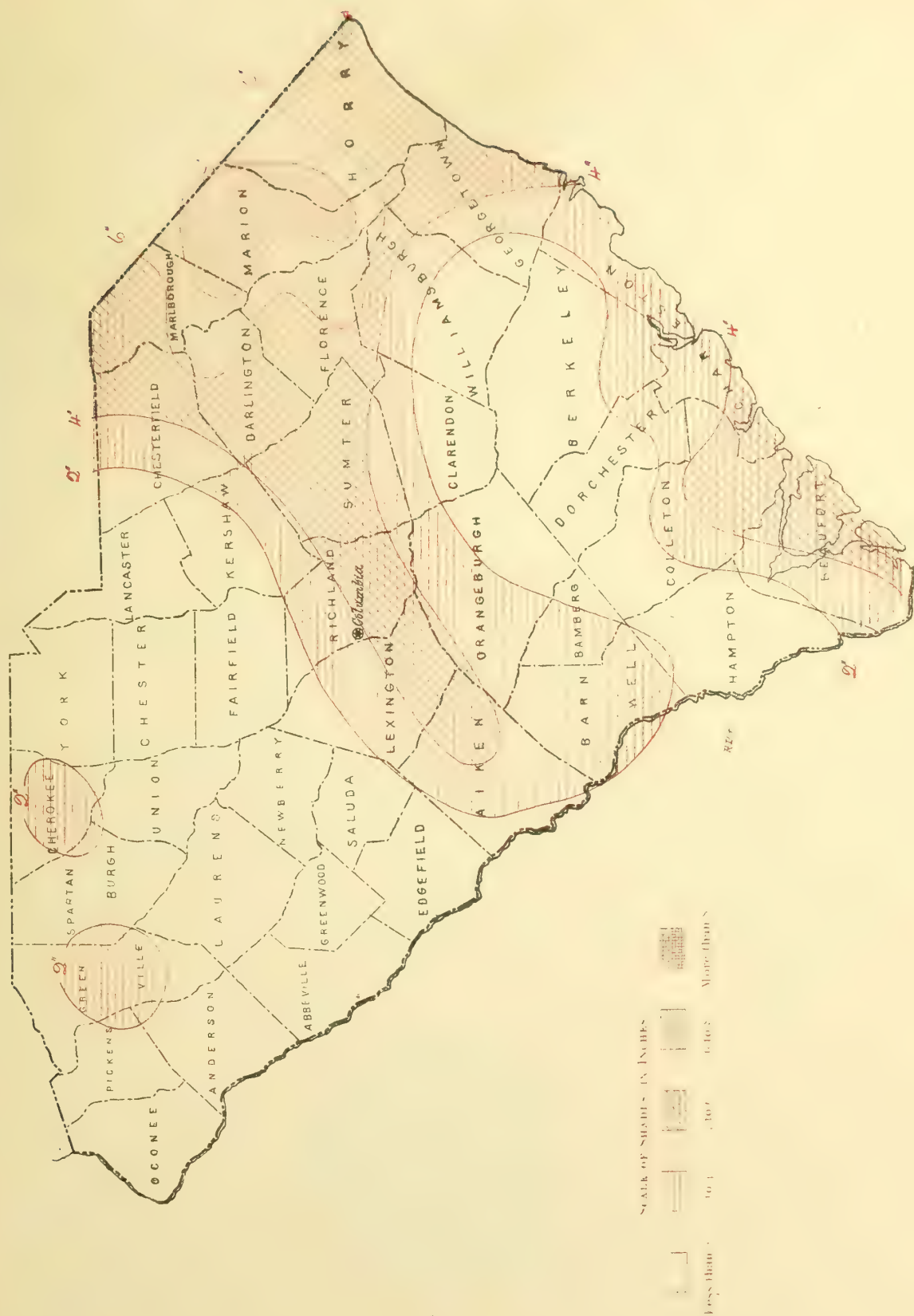
STATIONS.

From 14th to 26th inclusive 2 p. m. readings were taken as maximum temperatures

$$f(x) + 101 + 102$$



# TOTAL PRECIPITATION FOR SEPTEMBER, 1904.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, SEPTEMBER, 1904.

| STATIONS.         | Day of Month. |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | Total. |      |
|-------------------|---------------|------|-----|------|------|------|------|-----|-----|----|----|-----|------|------|------|----|----|----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|----|--------|------|
|                   | 1             | 2    | 3   | 4    | 5    | 6    | 7    | 8   | 9   | 10 | 11 | 12  | 13   | 14   | 15   | 16 | 17 | 18 | 19  | 20  | 21  | 22  | 23 | 24 | 25 | 26  | 27  | 28  | 29  | 30  | 31 |        |      |
| Aiken             |               |      |     |      | .40  |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 0.40   |      |
| Allendale         |               |      |     |      | 1.35 | .95  |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 2.30   |      |
| Anderson          |               |      | .13 |      | .42  |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 0.63   |      |
| Augusta, Ga.      |               |      |     | .19  | 1.05 | T.   |      |     |     |    |    |     |      |      |      |    |    |    |     | .08 | .15 | .03 |    |    |    |     |     | T.  |     |     |    | 1.42   |      |
| Barksdale         |               |      |     | .19  | T.   |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 0.19   |      |
| Batesburg         | .37           |      |     |      | .47  | .29  | .09  |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 1.22   |      |
| Beaufort          |               |      |     |      | 2.50 | 1.60 |      |     |     |    |    | .22 |      |      |      |    |    | T. | .04 | T.  |     |     | T. |    |    |     |     |     | .08 |     |    | 4.44   |      |
| Bennettsville     |               |      |     |      | .30  |      |      |     |     |    |    |     |      | 3.00 | .25  |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 3.25   |      |
| Blackville        |               |      |     |      | .47  | 1.64 | .99  | .01 |     |    |    |     |      |      |      |    |    |    |     |     | .05 | .01 |    |    |    |     |     |     |     |     |    | 3.17   |      |
| Bowman            |               |      |     | .29  | .20  | .08  | .04  |     |     |    |    |     |      | .18  |      |    |    |    |     |     | .06 |     |    |    |    |     | .08 |     |     |     |    | 0.93   |      |
| Calhoun Falls     |               |      |     | .44  |      | .26  |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 0.70   |      |
| Camden            |               |      |     |      | .42  | .90  |      |     |     |    |    |     |      | .16  | .28  |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 1.76   |      |
| Charleston        |               |      |     |      | .64  | .77  | .83  | T.  |     |    |    |     | .28  | .16  |      |    |    | T. |     | T.  | .49 | T.  |    |    |    |     |     | T.  |     |     |    | 3.17   |      |
| Charlotte, N. C.  | .05           | .01  |     | .76  | .90  |      |      |     |     |    |    |     |      | .02  |      |    |    |    |     | .03 | T.  |     |    |    |    | .01 |     |     |     |     |    | 1.78   |      |
| Cheraw(1)         |               |      |     |      | 1.15 |      |      |     |     |    |    |     |      | .65  | 2.38 |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 4.18   |      |
| Cheraw(2)         |               |      |     |      | 1.83 |      |      |     |     |    |    |     |      | .97  | 2.00 |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 4.80   |      |
| Clark's Hill      |               |      |     | .02  | .22  |      |      |     |     |    |    |     |      |      |      |    |    |    |     | .20 |     |     |    |    |    |     |     |     |     |     |    | 0.46   |      |
| Clemson College   |               |      |     | .88  | .92  |      |      |     |     |    |    |     |      |      |      |    |    |    |     | .09 | T.  |     |    |    |    |     |     |     |     |     |    | 1.89   |      |
| Columbia          |               |      |     | .49  | .68  | 1.24 | T.   |     |     |    |    |     |      | T.   |      |    |    |    |     | T.  | .07 |     |    |    |    |     | .02 | T.  |     |     |    | 2.50   |      |
| Conway            |               |      |     |      |      | .70  |      |     |     |    |    |     |      | 3.10 | 1.60 |    |    |    |     |     |     | .15 |    |    |    |     |     |     |     |     |    | 5.55   |      |
| Darlington        |               |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |        |      |
| Dillon            |               |      |     | .03  | 1.14 | .23  |      |     |     |    |    |     |      | 7.24 |      |    |    |    |     |     | .02 |     |    |    |    |     |     |     |     |     |    | 8.66   |      |
| Due West          |               |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |        |      |
| Edisto            |               |      |     | .30  |      | 1.00 |      |     | .10 |    |    |     |      |      |      |    |    |    |     |     | .20 | .50 |    |    |    |     |     |     |     |     |    | 2.10   |      |
| Effingham         |               |      |     |      | .25  | .60  | .40  |     |     |    |    |     |      | .70  | 4.70 |    |    |    |     |     | .20 |     |    |    |    |     |     |     |     |     |    | 6.85   |      |
| Enore             |               |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |        |      |
| Florence          |               |      |     |      | .46  | 1.75 | T.   |     |     |    |    |     |      | 1.50 | 1.75 |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 5.46   |      |
| Gaffney           | .22           | 1.82 | .04 |      |      | .20  |      |     |     |    |    |     | 5.10 |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 2.08   |      |
| Georgetown        |               |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     | .65 |     |    |    |    |     |     |     |     |     |    | 5.95   |      |
| Gillisonville     |               |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |        |      |
| Greenville        |               |      |     | 2.38 | .07  | T.   |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     | T.  |    |    |    |     |     |     |     |     |    | 2.45   |      |
| Greenwood         |               |      |     | .45  | 1.16 | .15  |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 1.79   |      |
| Heath Springs     |               |      |     | .28  |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |        | 1.46 |
| Kingstree(1)      |               |      |     |      |      | 1.10 | T.   |     |     |    |    |     |      | .34  |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 2.06   |      |
| Kingstree(2)      |               |      |     |      |      | 1.03 |      |     |     |    |    |     |      | .23  | .73  |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 2.15   |      |
| Liberty           |               |      |     | .30  | T.   |      |      | T.  |     |    |    |     |      | .19  | .81  |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 0.44   |      |
| Little Mountain   |               |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | T.     |      |
| Lugoff            |               |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |        |      |
| Newberry          |               |      |     | .11  |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     | .19 |     |    |    |    |     |     |     |     |     |    | 0.30   |      |
| Pelzer            |               |      |     | .20  | .10  |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 0.30   |      |
| Pinopolis         | .03           |      |     |      | .55  | .04  |      |     |     |    |    |     | .10  | .07  |      |    |    |    |     |     | .08 |     |    |    |    |     |     |     |     |     |    | 0.91   |      |
| St. Georges       |               |      |     |      |      | .40  | .20  | .06 |     |    |    |     |      | .20  |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 0.93   |      |
| St. Matthews      |               |      |     |      | .10  | 1.80 | .11  | .10 |     |    |    |     |      | .20  |      |    |    |    |     |     |     | .24 |    |    |    |     |     |     |     |     |    | 2.55   |      |
| St. Stephens      |               | .04  |     |      |      | .30  |      | .12 |     |    |    |     |      | 1.20 | .28  |    |    |    |     |     |     | .02 |    |    |    |     |     |     |     |     |    | 1.96   |      |
| Saluda            | T.            |      | .08 | .12  | .63  | .02  |      |     |     |    |    |     |      |      |      |    |    |    |     |     | .15 |     |    |    |    |     |     |     |     |     |    | 1.00   |      |
| Santuc            |               |      |     | .14  | .66  | T.   |      | T.  |     |    |    |     |      |      |      |    |    |    |     |     | T.  | .17 |    |    |    |     |     | T.  |     | .03 |    | 1.00   |      |
| Savannah, Ga.     |               | .24  |     |      | .11  | 1.79 | T.   | T.  |     |    |    |     | .05  |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 2.86   |      |
| Seivern           |               |      |     |      | .07  | 3.58 | .08  |     |     |    |    |     |      |      |      |    |    |    |     |     | .10 |     |    |    |    |     |     |     |     |     |    | 3.84   |      |
| Smiths Mills      |               |      |     |      |      | .30  |      |     |     |    |    |     |      | 7.60 | 1.30 |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 9.50   |      |
| Society Hill      |               |      |     | 2.51 | 1.15 | T.   |      |     |     |    |    |     |      | 1.86 | 1.34 |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 6.86   |      |
| Spartanburg       |               |      |     | .62  | .48  |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 1.47   |      |
| Stateburg         |               |      |     | .50  | 1.59 | 1.91 |      |     |     |    |    |     | .02  | .26  |      |    |    |    |     |     |     | .02 |    |    |    |     |     |     |     |     |    | 4.30   |      |
| Summerville       |               |      |     |      | .43  | .10  | .89  | T.  |     |    |    |     | 1.21 |      |      |    |    |    |     |     | .03 | .15 |    |    |    |     |     | T.  |     |     |    | 2.81   |      |
| Sumter            |               |      |     |      |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |        |      |
| Trenton           |               |      |     | .08  | .33  |      | .27  |     |     |    |    |     |      |      |      |    |    |    |     |     |     | T.  |    |    |    |     |     |     |     |     |    | 0.68   |      |
| Trial             |               |      |     |      | .49  | .07  |      | T.  |     |    |    |     | .05  | .80  |      |    |    |    |     |     | .02 | .03 |    |    |    |     |     | .29 |     |     |    | 1.75   |      |
| Walhalla          |               |      |     | .65  | .05  | .05  |      |     |     |    |    |     | .15  |      |      |    |    |    |     |     |     |     |    |    |    | .10 |     | .05 |     |     |    | 1.05   |      |
| Walterboro        |               |      |     |      | 1.03 | .83  | 1.42 |     |     |    |    |     |      | .31  | .14  |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 4.00   |      |
| Wilmington, N. C. |               |      |     | .16  | .02  | T.   | T.   |     | .01 |    |    | .01 | 1.03 |      |      |    |    |    |     | .02 | .12 | .40 |    |    |    |     |     |     |     |     |    | 1.75   |      |
| Winnsboro         |               |      |     | .65  |      |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 0.80   |      |
| Winthrop College  |               |      |     | .40  | .05  |      |      |     |     |    |    |     |      | T.   |      |    |    |    |     |     | T.  | T.  |    |    |    |     |     |     |     |     |    | 0.45   |      |
| Yemassee          |               |      |     |      |      | 1.63 | .23  |     |     |    |    |     |      | T.   |      |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    | 1.86   |      |
| Yorkville         |               |      |     | .15  | .31  |      |      |     |     |    |    |     |      |      |      |    |    |    |     |     | T.  |     |    |    |    |     |     |     |     |     |    | 0.46   |      |

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR OCTOBER, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



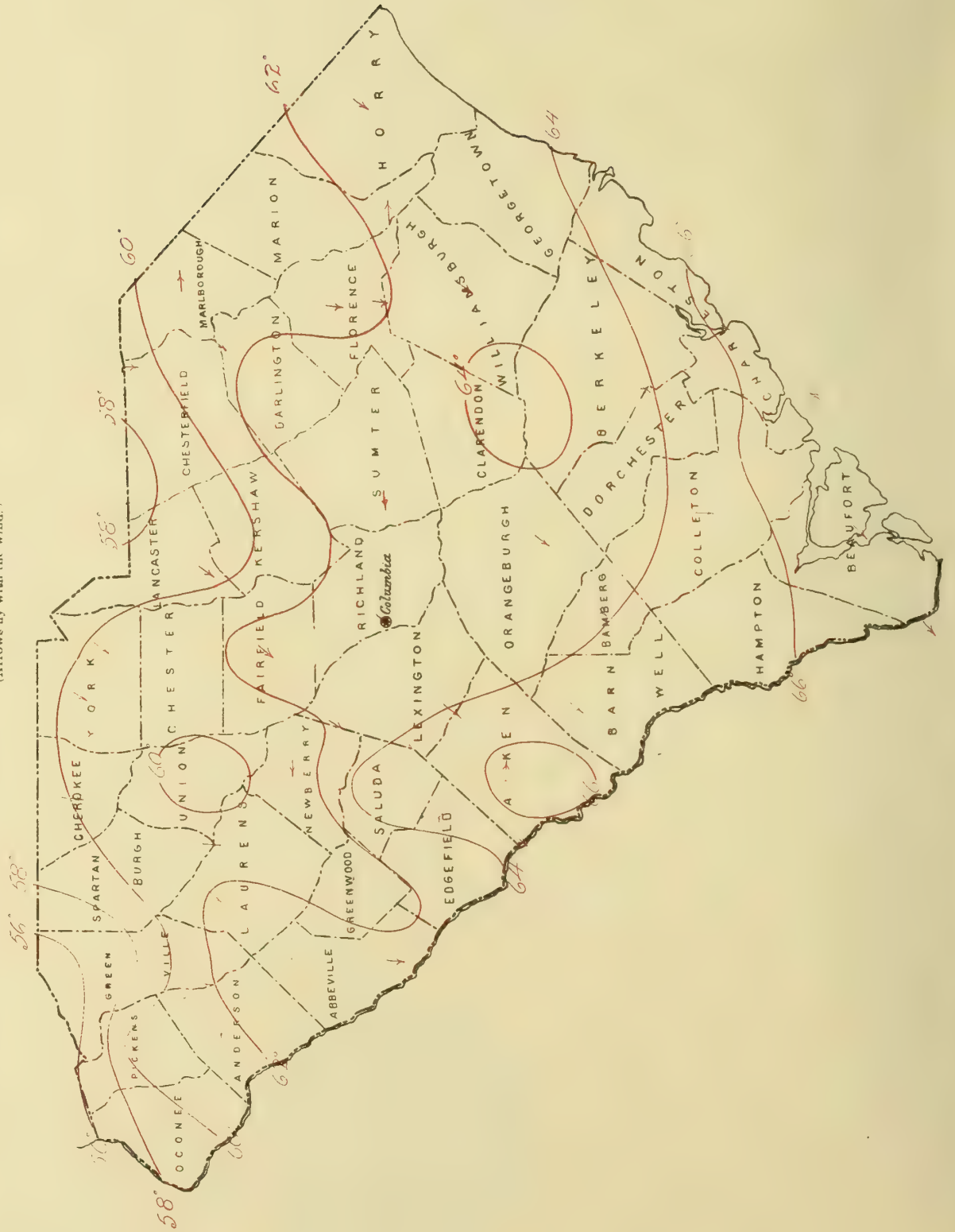
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

NOVEMBER 18, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR OCTOBER, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VII. COLUMBIA, S. C., OCTOBER, 1904. No. 10.

## PROGRESS OF FARM WORK.

The month was exceptionally fine for gathering ripened crops, owing to the almost entire absence of rain over the western parts and the few rainy days in the central and eastern ones.

The temperature was variable, with a fairly constant warm period from the 1st to the 12th, during which time it ranged generally above normal. After the 12th it was somewhat cooler than usual with light to heavy frosts over the western counties on the 16th-17th, that did little, if any, damage. Frosts were general on the 23-24th, killing over a considerable portion of the western and central portions, and generally heavy in the interior and light along the coast. There was little vegetation liable to injury, so the damage was slight although some top crop cotton was destroyed on low lands where the frost was killing.

The precipitation consisted of widely scattered, very light showers until the 20-21st when a general rain occurred over the eastern counties, heavy in places, but mostly light. Another general rain occurred on the 25-26th that covered the whole State but was very light in the extreme western parts and only moderately heavy in the central and eastern parts. This rain failed to relieve the severe drought that prevailed throughout the month over the western half of the State, where the ground was too dry for plowing and seeding, and for growth or full maturity of root crops and late peas. The moisture condition of the soil was more favorable in the eastern half, although seeding operations were delayed somewhat by the rush incident to gathering the large and rapidly opening cotton crop, and to harvesting the excellent corn crop as well as saving a fairly heavy fall hay crop, all of which were given the preference. For these reasons less than the usual amount of grains was sown by the close of October.

Cotton opened very fast and practically 90 per cent of the crop was picked by the close of the month, while nearly all of it was open, but a scarcity of pickers in some sections prolonged picking somewhat. The lint was saved in exceptionally fine condition without weather stain or sand.

Nearly all of a large, well matured corn crop was housed; sweet potatoes dug and pitted; a fairly heavy fall hay crop cured; and rice harvest finished under the most favorable

weather conditions, except in the Georgetown district where there was some delay from wet weather. The whole month was an almost ideal one for harvesting operations. There was too little rain for fall gardens and for truck, but such of the minor crops as came to maturity during September were not affected by the drought, and were gathered this month. The worst effect of the drought was to delay wheat and oats seeding, especially the latter.

Barometer and Wind Table for October, 1904.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.09      | 30.42    | 2     | 29.51   | *2    | 4.775           | 6.3             | 24                | ne.        | 6     |
| Charleston.       | 30.07      | 30.37    | 2     | 29.65   | 20    | 9.449           | 12.8            | 33                | e.         | 17    |
| Charlotte, N. C.  | 30.14      | 30.48    | 2     | 29.71   | 2     | 4.120           | 5.5             | 18                | ne.        | 6     |
| Columbia.         | 30.10      | 30.44    | 2     | 29.69   | 2     | 8.474           | 11.1            | 31                | ne.        | 6     |
| Savannah, Ga.     | 30.06      | 30.35    | 2     | 29.68   | 20    | 6.310           | 8.5             | 28                | ne.        | 18    |
| Wilmington, N. C. | 30.07      | 30.39    | 21    | 29.67   | 21    | 5.689           | 7.6             | 32                | nw.        | 21    |
| Averages.         | 30.09      | 30.48    |       | 29.51   | *2    | 6.470           | 8.7             | 33                | e.         | 17    |

\* and 20.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for October, 1904, was 62.4°, which is 0.6° below normal. The highest local mean was 67.5° at Aiken; the lowest 56.8° at Greenville. The monthly extremes were a maximum of 98° at Clarks Hill on the 12th, and a minimum of 26° at Greenville and Santuc on the 24th, making the State range 72°. The greatest local monthly range was 66° at Gaffney and Santuc, the least was 39° at Charleston. The mean of the daily maximum temperatures was 74.8°, and of the daily minimum temperatures was 49.9°, making the average daily range 24.9°.

Frosts (First Light of Season).—14th, Barksdale; 15th, Anderson, Bowman, Clarks Hill, Clemson College, Greenville, Greenwood, Liberty, Little Mountain, Saluda, Santuc, Seivern, Trial; 16th, Bennettsville, Darlington, Florence, Heath Springs, Society Hill, Spartanburg, Walhalla, Winthrop College; 17th, Gaffney, Summerville; 23rd, Batesburg, Blackville, Columbia, Dillon, Georgetown, Stateburg, Trenton, Walterboro, Winnsboro, Yorkville; 24th, Beaufort, Camden, Charleston, Conway, Due West, Edisto, Effingham, Kingstree, St. Matthews, St. Stephens, Smiths Mills, Yemassee, Enoree, Pelzer; 28th, St. George.

Frosts (First Killing of Season).—16th, Santuc, Seivern; 23rd, Greenville, Newberry, Winthrop College; 24th, Bennettsville, Bowman, Blackville, Clarks Hill, Clemson College, Darlington, Florence, Gaffney, Greenwood, Heath Springs, Liberty, Little Mountain, Spartanburg, Stateburg, Trial, Walhalla; 25th, Barksdale.

Ice (First of Season).—24th, Bennettsville, Blackville, Santuc, Stateburg, Seivern.



## Precipitation, in Inches.

The precipitation averaged 1.10 inches, which is 2.09 below normal. The greatest local amount was 4.75 at Charleston, the least was "none" at Walhalla. The greatest 24-hour fall was 3.91 at Charleston on the 20th. The average number of days with 0.01, or more, precipitation was 3, ranging from none at Aiken, Clemson College, Greenville, Liberty and Walhalla to 6 at Charleston, Pinopolis and Summerville.

Excessive Precipitation.—Charleston, 20th, 3.91 in 24 hrs.; Smiths Mills, 22nd, 2.50 in 24 hrs.

Weather.—The average number of clear days was 23, of partly cloudy ones 5, and of cloudy ones 3.

Winds.—The prevailing direction of the wind was from the northeast at 26 stations, from the north at 10, from the east and west at 6 each, from the south and southwest at 1 station each.

High Winds.—Charleston, 17; Columbia, 6; Liberty, 7; Little Mountain, Saluda, 22; Seivern, Society Hill, 14; Summerville, 6, 7, 13.

## MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston, 18, 19.

Lunar Halos.—Blackville, Charleston, Stateburg, 19; Little Mountain, 27.

Earthquakes (slight).—Summerville, 1st, at 3:45 a. m.

Birds (Migration of).—Santuc, 17th, first robin seen; Stateburg, 11th, last swallow seen.

Fogs, Dense.—Charleston, 11, 12, 26, 27; Columbia, 21, 26, 27; Seivern, 19; Stateburg, 25; Summerville, 11.

Thunderstorms.—Barksdale, Blackville, Bowman, Liberty, Newberry, Saluda, Stateburg, Yorkville, 6th; Beaufort, 3rd; Little Mountain, 7th.

There was a total of 10 thunderstorms on three dates as follows: 1 on the 3rd, 8 on the 6th, and 1 on the 7th.

## REMARKS BY OBSERVERS.

BARKSDALE.—Cotton practically all gathered; frost killed the small unripe bolls; corn was mostly housed, and is a good crop; a little grain was sown. BATESBURG.—Weather was very fine for gathering crops; cotton about all open, and, in many places, all picked; sweet potatoes being gathered, yields poor; no grains were sown owing to drought. BEAUFORT.—Mean temperature was  $0.3^{\circ}$  and precipitation 2.64 inches below normal; the month was fine for gathering hay and cotton, and nearly all cotton was picked; the drought was very injurious to fall truck. BOWMAN.—There was practically no rain this month; many streams are dry and stock suffered for water; no small grain sown; cotton nearly all picked, and is the best crop in many years. CLARKS HILL.—A dry month, very favorable for picking cotton; land is too hard to plant to grain. HEATH SPRINGS.—All crops were gathered in good condition; yields of corn, peas, and potatoes were good, cotton not so good; some oats were sown. LIBERTY.—Dry and dusty month; crop gathering was nearly completed; a few fields of oats were sown; stubble fields could not be plowed; corn, pea and hay crops were good; cotton nearly all open and picking well advanced; laborers scarce; water low in streams and wells. LITTLE MOUNTAIN.—Some oats were sown during the latter part

of the month, soil too dry for it to germinate; no fall plowing done except on bottom lands; all crops gathered; all streams very low. NEWBERRY.—Very dry month, splendid weather for gathering crops; too dry to sow grain. SEIVERN.—Leaves shedding in deciduous forests; month very dry and all streams very low. SOCIETY HILL.—Cotton, peavines, hay and other crops harvested in first class condition. STATEBURG.—The weather was remarkably favorable for the maturing of cotton on clay soils, and for gathering it in good condition; there was not enough rain for the best development of sweet potatoes, and the crop will probably be short; all late crops were more or less damaged by insufficient rain. TRENTON.—The precipitation was 3.55 inches less than the normal, and is now 17.03 inches less than the normal for the first 10 months of the year.

## SAM P. SALTUS.

Mr. Saltus died on October 5th at his home in Gillisonville, S. C. He began his connection with this service, as a voluntary observer, in February, 1895. He had previously served as a clerk in the Instrument Division of the Central Office, at Washington, D. C.

During the interval from the first report to the time of his death, he did not fail to render a single monthly report, and, with one exception, every report was complete. The exception was caused by sickness. His comments on the month's weather were always pertinent and epigrammatic. As a climate and crop correspondent he was reliable and his reports trustworthy, although they were, as a rule, tinged with pessimism due as much to his surroundings as to temperament. While this office regrets his death, it takes pleasure in paying him this tribute to his faithfulness and his efficiency as a voluntary observer. His death necessitated the closing of his station.

## CORRECTIONS.

The following corrections occur on the September, 1904, Monthly Report: Page 5, Bennettsville, maximum temperature on 14th and other dates, should be on 18th and other dates; Society Hill, mean temperature  $72.4^{\circ}$ , should be  $72.5^{\circ}$ ; Trenton, mean temperature  $75.4^{\circ}$  should be  $75.3^{\circ}$ ; Walterboro, total precipitation 4.00 inches should be 4.04; Yemassee, minimum temperature  $51^{\circ}$  on 18th, should be  $54^{\circ}$  on the 25th. Page 6, Bennettsville, temperatures on the 9th, 88, 60 should be 87, 57; on 10th, 85, 62 should be 88, 60; 11th should be 85, 63; beginning with 12th all temperatures should be set back one day; on 29th temperatures 93, 64, should be 95, 70.

According to the investigations of Prof. Frank H. Bigelow, of the Weather Bureau, ordinary storms do not reach to an altitude of much, if any, over 4,000 feet, while very few storms reach an altitude of 10,000 feet.

The drought that existed during September and October in the western portions of this State, also affected western North Carolina, as well as the greater part of Georgia, Alabama and Mississippi.



## CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER, 1904.

| STATIONS.                             | Counties.         | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—inches. |                        |               |               |                |              | Remarks. |       |                       |                  |
|---------------------------------------|-------------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|------------------------|---------------|---------------|----------------|--------------|----------|-------|-----------------------|------------------|
|                                       |                   |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Total.                | Deviation from normal. | Days of rain. | Days of snow. | Days of sleet. | Days of fog. |          |       |                       |                  |
| Aiken.....                            | Aiken.....        | 505             | 3                       | 67.5                               | +3.6                       | 95       | 6     | 37      | 25    | 0                     | T.                     | -3.00         | T.            | 0              | 26           | 0        | 2     | W. C. E. Carter       |                  |
| Allendale.....                        | Barnwell.....     | 186             | 10                      | 66.2                               | +2.0                       | 88       | 12    | 40      | 24    | 31                    | 1.27                   | -1.23         | 1.07          | 0              | 24           | 0        | 0     | C. A. Long            |                  |
| Anderson.....                         | Anderson.....     | 704             | 3                       | 65.2                               | +4.8                       | 85       | 12    | 35      | 23    | 20                    | 0.24                   | -2.70         | 0.24          | 0              | 24           | 7        | 1     | R. B. Dean            |                  |
| Augusta, Ga.....                      | Richmond.....     | 144             | 33                      | 61.3                               | +0.6                       | 80       | 11    | 37      | 23    | 12                    | 0.20                   | -2.22         | 0.15          | 0              | 24           | 5        | 0     | Weather Bureau.       |                  |
| Barksdale.....                        | Laurens.....      | 700             | 3                       | 62.6                               | .....                      | 85       | 11    | 33      | 23    | 36                    | 0.62                   | .....         | 0.62          | 0              | 24           | 5        | 2     | J. T. Garrett.        |                  |
| Batesburg.....                        | Lexington.....    | 656             | 10                      | 65.3                               | +2.2                       | 92       | 12    | 34      | 24    | 41                    | 0.66                   | -2.62         | 0.48          | 0              | 24           | 1        | 1     | E. J. Har             |                  |
| Beaufort.....                         | Beaufort.....     | 28              | 18                      | 67.4                               | -0.3                       | 86       | 11    | 31      | 21    | 26                    | 1.00                   | -2.64         | 0.60          | 0              | 19           | 6        | 6     | S. M. Bolton          |                  |
| Bennettsville.....                    | Marlboro.....     | 100             | 3                       | 62.4                               | .....                      | 90       | 11    | 32      | 24    | 16                    | 0.60                   | .....         | 0.65          | 0              | 28           | 3        | 0     | Jno. L. McCall.       |                  |
| Blackville.....                       | Barnwell.....     | 206             | 10                      | 64.5                               | +0.3                       | 93       | 11    | 34      | 24    | 37                    | 0.68                   | -2.51         | 0.25          | 0              | 24           | 7        | 1     | G. D. C. Lange        |                  |
| Bowman.....                           | Orangeburg.....   | 160             | 3                       | 63.0                               | .....                      | 92       | 1     | 30      | 24    | 37                    | 0.43                   | .....         | 0.15          | 0              | 25           | 5        | 1     | B. O. Evans           |                  |
| Calhoun Falls.....                    | Abbeville.....    | 508             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 0.52                   | -3.29         | 0.52          | 0              | 28           | 0        | 3     | P. J. Pfeiffer        |                  |
| Camden.....                           | Kershaw.....      | 222             | 38                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 1.40                   | -1.28         | 0.55          | 0              | 23           | 3        | 5     | J. C. Whitaker        |                  |
| Charleston.....                       | Charleston.....   | 48              | 35                      | 66.8                               | +0.1                       | 86       | 2     | 47      | 24    | 20                    | 1.75                   | +0.57         | 3.91          | 0              | 12           | 16       | 3     | Weather Bureau.       |                  |
| Charlotte, N. C.....                  | Mecklenburg.....  | 808             | 26                      | 60.0                               | -0.3                       | 86       | 11    | 35      | 24    | 33                    | 0.91                   | -2.76         | 0.73          | 0              | 22           | 6        | 3     | Weather Bureau.       |                  |
| Cheraw (1).....                       | Chesterfield..... | 144             | 16                      | 58.2                               | -3.0                       | 90       | 11    | 34      | 24    | 35                    | 2.26                   | -0.49         | 1.85          | 0              | 19           | 5        | 7     | W. R. Godfrey.        |                  |
| Cheraw (2).....                       | .....             | 144             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.40                   | -0.65         | 1.92          | 0              | 23           | 1        | 4     | Jno. H. Powe.         |                  |
| Clarks Hill.....                      | Edgefield.....    | 456             | 2                       | 63.4                               | .....                      | 98       | 12    | 35      | 24    | 35                    | 0.16                   | .....         | 0.16          | 0              | 22           | 6        | 3     | Wm. S. Middleton.     |                  |
| Clemson College.....                  | Oconee.....       | 850             | 13                      | 60.8                               | -2.3                       | 90       | 11    | 27      | 24    | 17                    | 0.00                   | -3.10         | 0.00          | 0              | 25           | 3        | 1     | Prof. C. C. Newman.   |                  |
| Columbia.....                         | Richland.....     | 351             | 17                      | 62.8                               | -0.8                       | 88       | 11    | 39      | 24    | 27                    | 2.33                   | -0.06         | 2.03          | 0              | 19           | 8        | 4     | Central Office.       |                  |
| Conway.....                           | Horry.....        | 25              | 13                      | 62.4                               | .....                      | 86       | 11    | 36      | 24    | 33                    | 2.30                   | -0.29         | 1.75          | 0              | 26           | 1        | 1     | McQ. Quattlebaum.     |                  |
| *Darlington.....                      | Darlington.....   | 175             | 9                       | 63.0                               | .....                      | 90       | 11    | 31      | 24    | 39                    | 1.02                   | -1.98         | 0.78          | 0              | 23           | 6        | 2     | Miss Fanny G. McIver  |                  |
| Dillon.....                           | Marion.....       | 100             | 0                       | 61.7                               | .....                      | 90       | 11    | 35      | 23    | 40                    | 3.01                   | .....         | 2.16          | 0              | 5            | .....    | ..... | A. E. Rowell.         |                  |
| Due West.....                         | Abbeville.....    | 710             | 3                       | 63.3                               | .....                      | 88       | 11    | 37      | 24    | 35                    | 0.60                   | .....         | 0.60          | 0              | 23           | 5        | 3     | Rev. O. Y. Bonner.    |                  |
| Edisto.....                           | Bamberg.....      | 127             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 0.34                   | -2.65         | 0.20          | 0              | 19           | 5        | 7     | M. Thompson.          |                  |
| Ellingham.....                        | Florence.....     | 106             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 1.19                   | -1.48         | 0.90          | 0              | 25           | 3        | 3     | H. B. McCall.         |                  |
| Enore.....                            | Spartanburg.....  | 987             | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                  | .....         | .....         | 0              | 20           | 6        | 5     | E. P. Porter.         |                  |
| Florence.....                         | Florence.....     | 136             | 16                      | 61.4                               | -1.8                       | 90       | 11    | 31      | 24    | 31                    | 1.26                   | -1.65         | 0.80          | 0              | 23           | 2        | 6     | H. K. Gilbert.        |                  |
| Gaffney.....                          | Cherokee.....     | 503             | 8                       | 60.4                               | .....                      | 94       | 11    | 28      | 24    | 50                    | 0.04                   | -2.90         | 0.04          | 0              | 1            | .....    | ..... | B. F. Camp.           |                  |
| Georgetown.....                       | Georgetown.....   | 12              | 11                      | 64.8                               | -0.4                       | 83       | 11    | 40      | 23    | 32                    | 2.85                   | -0.44         | 2.85          | 0              | 1            | .....    | ..... | Reid Whitford.        |                  |
| Greenville.....                       | Greenville.....   | 989             | 12                      | 56.8                               | -4.1                       | 86       | 11    | 26      | 24    | 50                    | T.                     | -2.77         | T.            | 0              | 26           | 1        | 4     | Mrs. S. A. Crittenden |                  |
| *Greenwood.....                       | Greenwood.....    | 671             | 16                      | 60.6                               | -1.7                       | 88       | 2     | 33      | 24    | 36                    | 0.40                   | -2.38         | 0.40          | 0              | 22           | 1        | 8     | M. M. Calhoun.        |                  |
| Heath Springs.....                    | Lancaster.....    | .....           | 3                       | 59.5                               | .....                      | 89       | 4     | 31      | 25    | 31                    | 1.36                   | .....         | 0.93          | 0              | 75           | 3        | 3     | J. A. Wenner.         |                  |
| Kingstree (1).....                    | Williamsburg..... | 54              | 10                      | 63.2                               | -1.6                       | 87       | 1     | 36      | 24    | 30                    | 1.09                   | -0.59         | 1.35          | 0              | 4            | 19       | 3     | J. A. Scott.          |                  |
| Kingstree (2).....                    | .....             | 54              | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 1.65                   | -1.01         | 1.30          | 0              | 4            | 20       | 1     | A. O. Matthews.       |                  |
| Liberty.....                          | Pickens.....      | 900             | 10                      | 60.8                               | +0.8                       | 89       | 11    | 29      | 24    | 41                    | T.                     | -3.66         | T.            | 0              | 23           | 7        | 1     | Jno. T. Boggs.        |                  |
| Little Mountain.....                  | Newberry.....     | 711             | 11                      | 62.0                               | -3.0                       | 91       | 11    | 35      | 24    | 35                    | 0.77                   | -2.57         | 0.46          | 0              | 22           | 6        | 3     | John M. Sease, M. D.  |                  |
| Lugoff.....                           | Kershaw.....      | 168             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                  | .....         | .....         | 0              | .....        | .....    | ..... | W. J. Burdell, M. D.  |                  |
| Newberry.....                         | Newberry.....     | 502             | 0                       | 61.2                               | -1.1                       | 90       | 11    | 30      | 24    | 36                    | 0.37                   | -3.06         | 0.20          | 0              | 25           | 2        | 4     | W. G. Peterson.       |                  |
| Pelzer.....                           | Anderson.....     | 873             | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 0.90                   | .....         | 0.42          | 0              | 20           | 6        | 5     | John M. Ward.         |                  |
| *Pinopolis.....                       | Berkeley.....     | 54              | 11                      | 63.0                               | -1.2                       | 82       | 2     | 40      | 24    | .....                 | 2.84                   | -1.18         | 1.15          | 0              | 23           | 0        | 8     | E. P. Ravenel.        |                  |
| St. Georges.....                      | Dorchester.....   | 109             | 16                      | 63.6                               | -0.5                       | 87       | 11    | 37      | 24    | 31                    | 0.17                   | -2.24         | 0.06          | 0              | 22           | 4        | 5     | W. B. Raysor.         |                  |
| St. Matthews.....                     | Orangeburg.....   | 269             | 16                      | 62.8                               | -1.7                       | 86       | 1     | 38      | 24    | 30                    | 0.25                   | -2.21         | 0.09          | 0              | 4            | 23       | 4     | J. S. Wannamaker.     |                  |
| St. Stephens.....                     | Berkeley.....     | 73              | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 1.63                   | -1.22         | 1.25          | 0              | 19           | 2        | 10    | C. T. Shuler.         |                  |
| Saluda.....                           | Saluda.....       | 536             | 3                       | 65.6                               | .....                      | 91       | 11    | 27      | 24    | 40                    | 0.41                   | .....         | 0.41          | 0              | 1            | 24       | 2     | Alvin Etheridge.      |                  |
| Santee.....                           | Union.....        | 512             | 11                      | 58.7                               | -3.0                       | 92       | 11    | 26      | 24    | 46                    | 0.38                   | -3.28         | 0.31          | 0              | 25           | 3        | 3     | E. W. Jeter.          |                  |
| Savannah, Ga.....                     | Chatham.....      | 71              | 35                      | 66.9                               | +0.5                       | 88       | 2     | 45      | 24    | 24                    | 0.23                   | -3.39         | 0.12          | 0              | 18           | 7        | 6     | Weather Bureau.       |                  |
| Severn.....                           | Aiken.....        | 482             | 3                       | 59.6                               | -4.6                       | 93       | 11    | 28      | 24    | 43                    | 1.09                   | -2.85         | 0.77          | 0              | 22           | 7        | 2     | Geo. C. Gunter.       |                  |
| Smiths Mills.....                     | Williamsburg..... | 62              | 9                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 3.90                   | -0.41         | 2.50          | 0              | 3            | 24       | 1     | H. van Keuren.        |                  |
| Society Hill.....                     | Darlington.....   | 192             | 13                      | 59.8                               | -2.0                       | 84       | 11    | 34      | 31    | 26                    | 2.06                   | -1.50         | 1.48          | 0              | 3            | 24       | 6     | J. J. Lucas.          |                  |
| Spartanburg.....                      | Spartanburg.....  | 875             | 13                      | 60.7                               | -0.3                       | 91       | 11    | 30      | 24    | 41                    | 0.83                   | -2.25         | 0.75          | 0              | 3            | 21       | 1     | F. P. Robinson.       |                  |
| Stateburg.....                        | Suiter.....       | 500             | 27                      | 63.0                               | -0.5                       | 88       | 11    | 38      | 24    | 32                    | 1.30                   | -1.86         | 0.55          | 0              | 6            | 20       | 7     | W. W. Anderson, M. D. |                  |
| Summerville.....                      | Dorchester.....   | 75              | 7                       | 63.0                               | -3.0                       | 85       | 12    | 37      | 23    | 31                    | 1.64                   | -4.33         | 0.78          | 0              | 6            | 19       | 6     | Miss E. H. Gadsden.   |                  |
| Suiter.....                           | Suiter.....       | 169             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                  | .....         | .....         | 0              | .....        | .....    | ..... | Wm. D. Shaw.          |                  |
| *Trenton.....                         | Edgefield.....    | 620             | 11                      | 62.8                               | -3.2                       | 87       | 11    | 37      | 24    | 33                    | 0.19                   | -3.55         | 0.19          | 0              | 1            | 27       | 1     | C. A. Long.           |                  |
| Tril.....                             | Berkeley.....     | 85              | 18                      | 63.1                               | 0.0                        | 90       | 11    | 30      | 24    | 33                    | 1.31                   | -1.93         | 0.90          | 0              | 3            | 20       | 7     | Etsell Gaillard.      |                  |
| Walhalla.....                         | Oconee.....       | 1061            | 13                      | 59.8                               | +0.2                       | 88       | 11    | 30      | 24    | 37                    | 0.00                   | -3.40         | 0.00          | 0              | 0            | 25       | 3     | J. D. Isbell.         |                  |
| Walterboro.....                       | Colleton.....     | .....           | 1                       | 65.6                               | .....                      | 89       | 12    | 35      | 24    | 32                    | 1.54                   | .....         | 0.71          | 0              | 5            | 23       | 5     | J. A. Westerberg.     |                  |
| Wilmington, N. C.....                 | New Hanover.....  | 52              | 35                      | 62.2                               | -1.3                       | 85       | 12    | 39      | 24    | 26                    | 1.26                   | -2.58         | 0.84          | 0              | 6            | 17       | 11    | 3                     | Weather Bureau.  |
| Winnboro.....                         | Fairfield.....    | 545             | 15                      | 62.7                               | +0.5                       | 90       | 11    | 36      | 24    | 28                    | 0.87                   | -1.71         | 0.87          | 0              | 1            | 26       | 2     | 2                     | John W. Seigler. |
| Winthrop College.....                 | York.....         | 690             | 5                       | 60.4                               | -1.7                       | 90       | 11    | 33      | 25    | 38                    | 0.55                   | -2.63         | 0.55          | 0              | 1            | 23       | 5     | 3                     | Geo. B. Green.   |
| Yemassee.....                         | Beaufort.....     | 23              | 9                       | 64.2                               | -1.7                       | 89       | 2     | 36      | 24    | 30                    | 1.07                   | -1.65         | 0.70          | 0              | 4            | 23       | 1     | 7                     | J. G. Hutson.    |
| Yorkville.....                        | York.....         | 680             | 16                      | 62.0                               | 0.0                        | 92       | 11    | 34      | 24    | 36                    | 1.06                   | -2.72         | 0.85          | 0              | 2            | 19       | 10    | 2                     | J. R. Schorb.    |
| MEANS—highest, lowest and dates, etc. | .....             | .....           | .....                   | 62.4                               | -0.6                       | 98       | 12    | 26      | 24    | 50                    | 1.10                   | -2.09         | 3.91          | 0              | 3            | 23       | 5     | 3                     | ne.              |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing. b, 2 days, etc. ‡ Not used in the means or summary, apparently too high.

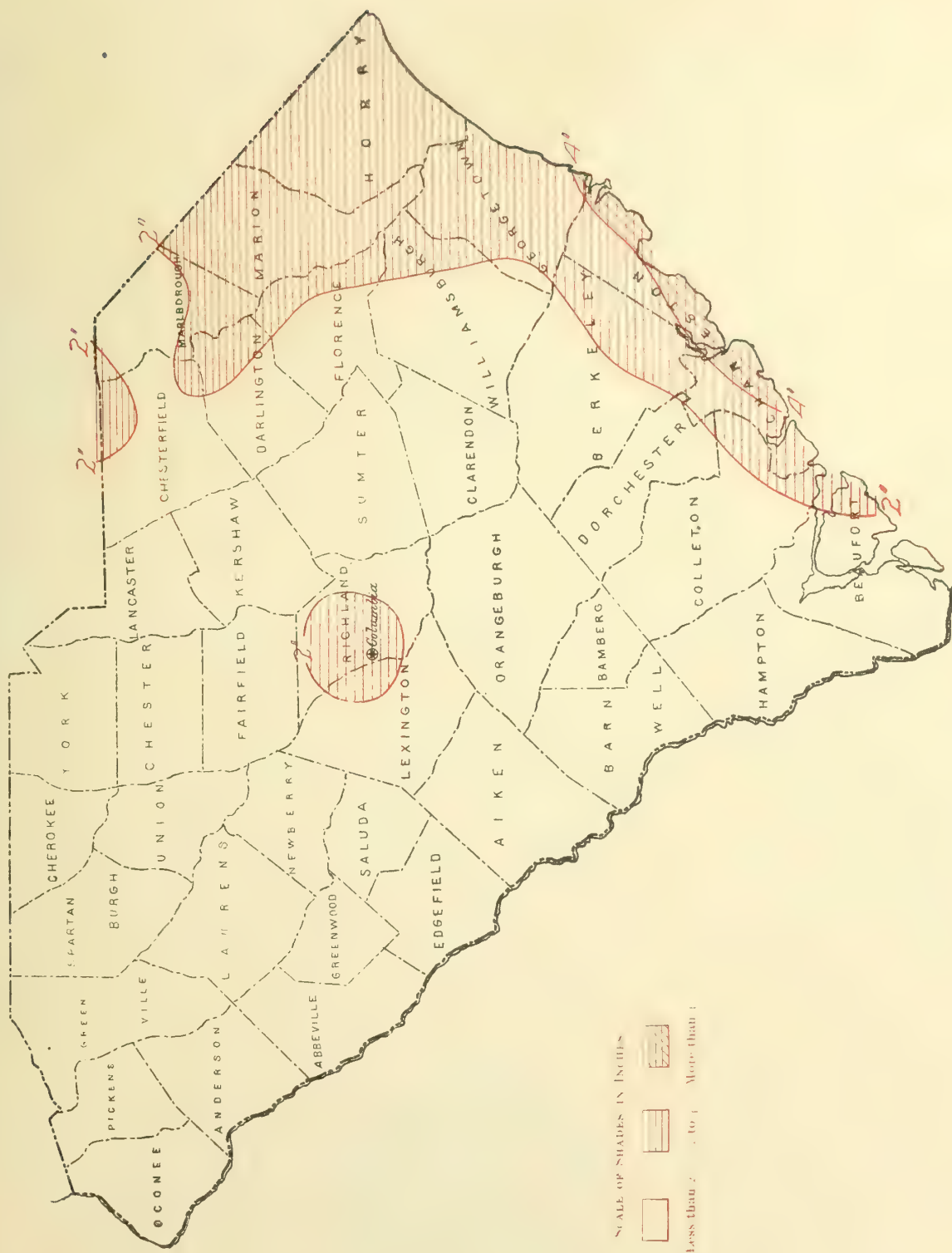


### STATIONS.

| STATIONS. |       | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Monthly mean. |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| Max.      | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.          |
| 93.63     | 68.61 | 90.61 | 67.60 | 95.67 | 65.60 | 92.66 | 61.58 | 99.61 | 62.66 | 91.58 | 60.61 | 88.62 | 88.64 | 83.62 | 84.64 | 88.65 | 78.63 | 76.67 | 54.81 | 54.84 | 66.60 | 58.72 | 46.70 | 46.67 | 40.65 | 37.67 | 64.39 | 73.37 | 78.43 | 70.37 | 80.7  | 54.3  |               |
| 93.68     | 67.65 | 84.67 | 67.80 | 95.59 | 65.59 | 92.66 | 61.58 | 99.61 | 62.66 | 91.58 | 60.61 | 88.62 | 88.64 | 83.62 | 84.64 | 88.65 | 78.63 | 76.67 | 54.81 | 54.84 | 66.60 | 58.72 | 46.70 | 46.67 | 40.65 | 37.67 | 64.39 | 73.37 | 78.43 | 70.37 | 80.7  | 54.3  |               |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52         |
| 97.65     | 65.60 | 95.65 | 64.55 | 95.60 | 60.56 | 95.60 | 59.56 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 | 58.52 | 95.60 |       |       |       |       |       |       |               |



# TOTAL PRECIPITATION FOR OCTOBER, 1904.



SCALE OF SHADES IN INCHES  
 Less than 2      2 to 4      More than 4



## DAILY PRECIPITATION FOR SOUTH CAROLINA, OCTOBER, 1904.

| STATIONS.         | Day of Month. |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | Total. |      |
|-------------------|---------------|---|------|-----|---|----|-----|-----|---|----|----|-----|-----|----|----|----|----|----|----|------|------|------|----|----|-----|------|-----|-----|-----|----|----|--------|------|
|                   | 1             | 2 | 3    | 4   | 5 | 6  | 7   | 8   | 9 | 10 | 11 | 12  | 13  | 14 | 15 | 16 | 17 | 18 | 19 | 20   | 21   | 22   | 23 | 24 | 25  | 26   | 27  | 28  | 29  | 30 | 31 |        |      |
| Aiken             |               |   |      |     |   | T. |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | T.     |      |
| Allendale         |               |   | 1.07 |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      | .20 |     |     |    |    | 1.27   |      |
| Anderson          |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .24  |     |     |     |    |    | 0.24   |      |
| Augusta, Ga.      |               |   | T.   |     |   |    | .14 | .01 |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | T.   | .11 |     |     |    |    | 0.26   |      |
| Barksdale         |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .62  |     |     |     |    |    | 0.62   |      |
| Batesburg         |               |   | T.   |     |   |    |     | .18 |   |    |    |     |     |    |    |    |    |    |    |      | T.   |      |    |    |     | T.   | .62 | .48 |     |    |    | 0.66   |      |
| Beaufort          |               |   | .35  |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | .04  |      |    |    |     | T.   | .60 |     | .01 |    |    | 1.00   |      |
| Bennettsville     |               |   |      |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    | .25  | .65  |      |    |    |     | .25  | .16 |     |     |    |    | 0.90   |      |
| Blackville        |               |   | .01  |     |   |    |     | .18 |   |    |    |     |     |    |    |    |    |    |    | .08  |      |      |    |    |     | .10  | .15 |     |     |    |    | 0.68   |      |
| Bowman            |               |   |      |     |   |    | .10 |     |   |    |    |     | T.  |    |    |    |    |    |    |      |      |      |    |    |     | .52  |     |     |     |    |    | 0.43   |      |
| Calhoun Falls     |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | .40  |      |    |    |     | .45  | .55 |     |     |    |    | 1.40   |      |
| Camden            |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    | 3.82 | .09  |      |    |    | .33 | .35  | .01 |     |     |    |    | 4.75   |      |
| Charleston        |               |   | .15  |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    | T.   | .02  |      |    |    | .09 | .73  |     |     |     |    |    | 0.91   |      |
| Charlotte, N. C.  |               |   |      |     |   |    | .06 |     |   |    |    | .01 |     |    |    |    |    |    |    | 1.85 |      |      |    |    |     | .05  | .36 |     |     | T. |    | 2.26   |      |
| Cheraw(1)         |               |   |      |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    | .08  |      |      |    |    |     | .08  | .40 |     |     | T. |    | 2.40   |      |
| Cheraw(2)         |               |   |      |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    | 1.92 |      |      |    |    |     | .16  |     |     |     |    |    | 0.16   |      |
| Clark's Hill      |               |   | T.   |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | 0.00   |      |
| Clemson College   |               |   |      |     |   |    | T.  | T.  |   |    |    |     |     |    |    |    |    |    |    | .12  | .11  |      |    |    | .07 | 2.03 |     |     |     |    |    | 2.33   |      |
| Columbia          |               |   |      |     |   |    |     | .35 |   |    | T. |     |     |    |    |    |    |    |    |      | .34  | .44  |    |    |     | .24  |     |     |     |    |    | 2.30   |      |
| Conway            |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    | .65  | 2.16 |      |    |    |     | .11  | T.  |     |     |    |    | 1.02   |      |
| Darlington        |               |   |      |     |   |    |     | .08 |   |    |    |     | .01 |    |    |    |    |    |    |      |      |      |    |    |     | .60  |     |     |     |    |    | 3.01   |      |
| Dillon            |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | 0.60   |      |
| Due West          |               |   |      |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .20  | .06 |     |     |    |    | 0.34   |      |
| Edisto            |               |   | .04  |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | .04  |      |    |    |     |      |     |     |     |    |    | 1.19   |      |
| Effingham         |               |   |      |     |   |    |     | .09 |   |    |    |     |     |    |    |    |    |    |    |      | .90  |      |    |    |     |      |     |     |     |    |    | 1.26   |      |
| Enore             |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | .80  |      |    |    |     |      | .46 |     |     |    |    | 0.04   |      |
| Florence          |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      | .04 |     |     |    |    | 2.85   |      |
| Gaffney           |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    | 2.85 |      |      |    |    |     |      |     |     |     |    | T. |        |      |
| Georgetown        |               |   |      |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .40  |     |     |     |    |    | 0.40   |      |
| Greenville        |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | .33  |      |    |    | .10 | .93  |     |     |     |    |    | 1.36   |      |
| Greenwood         |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | 1.35 |      |    |    |     | .01  | .30 |     |     |    |    | 1.69   |      |
| Heath Springs     |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | 1.30 |      |    |    |     | .01  | .30 |     |     |    |    | 1.65   |      |
| Kingstree(1)      |               |   | .03  |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | T.     |      |
| Kingstree(2)      |               |   | .04  |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | T.   |      |    |    |     | T.   |     |     |     |    |    | 0.77   |      |
| Liberty           |               |   | T.   |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    |      | .20  |      |    |    |     | T.   | .46 |     |     |    |    | 0.37   |      |
| Little Mountain   |               |   |      |     |   |    | .31 |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | 0.90   |      |
| Lugoff            |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .02  | .15 |     |     |    |    | 2.84   |      |
| Newberry          |               |   |      |     |   |    | .20 |     |   |    |    |     |     |    |    |    |    |    |    |      | .16  |      |    |    |     | .42  | .12 |     |     |    |    | 0.17   |      |
| Pelzer            |               |   |      |     |   |    | .20 |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .42  |     |     |     |    |    | 0.25   |      |
| Pinopolis         |               |   | .02  |     |   |    | .05 |     |   |    |    | .45 |     |    |    |    |    |    |    |      | 1.45 |      |    |    |     | .45  | .42 |     |     |    |    | 1.63   |      |
| St. Georges       |               |   | .04  |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | .05  |      |    |    |     | .05  | .09 |     |     |    |    | 0.41   |      |
| St. Matthews      |               |   | .09  |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | .02  |      |    |    |     | .02  | .36 |     |     |    |    | 0.38   |      |
| St. Stephens      |               |   |      |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    |      | 1.25 |      |    |    |     | .41  |     |     |     |    |    | 0.23   |      |
| Saluda            |               |   |      |     |   |    | .05 |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .38  |     |     |     |    |    | 1.09   |      |
| Santee            |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    | .01  |      |      |    |    |     | T.   | .12 | .01 | T.  |    |    | 3.90   |      |
| Savannah, Ga.     |               |   | .09  |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    |      | T.   |      |    |    |     | .77  | .14 |     |     |    |    | 2.06   |      |
| Seivern           |               |   |      |     |   |    | .18 |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | 0.83   |      |
| Smiths Mills      |               |   |      |     |   |    |     |     |   |    |    |     | .40 |    |    |    |    |    |    |      | 1.00 | 2.50 |    |    |     | .20  |     |     |     |    |    | 1.30   |      |
| Society Hill      |               |   |      |     |   |    | .38 |     |   |    |    |     |     |    |    |    |    |    |    |      | 1.48 |      |    |    |     | .20  |     |     |     |    |    | 1.64   |      |
| Spartanburg       |               |   |      |     |   |    | .75 |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .05  | .03 |     |     |    |    | 0.19   |      |
| Stateburg         |               |   |      |     |   |    | .26 | .09 |   |    |    |     |     |    |    |    |    |    |    |      | .55  |      |    |    |     | .14  | .22 | .04 |     |    |    | 1.31   |      |
| Summerville       |               |   | .14  |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      | .75  |      |    |    |     | .05  | .03 | .29 |     |    |    | 1.54   |      |
| Sumter            |               |   |      |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .19  |     |     |     |    |    | 0.00   |      |
| Trenton           |               |   | T.   |     |   |    | T.  |     |   |    |    |     |     |    |    |    |    |    |    |      | .90  |      |    |    |     | .21  | .20 |     |     |    |    | 1.26   |      |
| Trial             |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | 0.87   |      |
| Walhalla          |               |   | T.   | .46 |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     | .04  | .31 | T.  |     |    |    |        | 1.54 |
| Walterboro        |               |   |      |     |   |    | .33 | .01 |   |    |    |     |     | T. | T. |    |    |    |    |      | .22  | .62  |    |    |     | .07  | T.  |     |     |    |    | 1.26   |      |
| Wilmington, N. C. |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    | 0.87   |      |
| Winnsboro         |               |   |      |     |   |    | T.  | T.  |   |    |    |     |     |    |    |    |    |    |    |      | T.   |      |    |    |     | T.   | .55 |     |     |    |    | 0.55   |      |
| Winthrop College  |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     | .04 | .10 |    |    | 1.07   |      |
| Yemassee          |               |   | .70  |     |   |    | .21 |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      | .85 |     |     |    |    | 1.06   |      |
| Yorkville         |               |   |      |     |   |    |     |     |   |    |    |     |     |    |    |    |    |    |    |      |      |      |    |    |     |      |     |     |     |    |    |        |      |

T indicates trace, less than .01 inch



651.16  
DASQ

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR NOVEMBER, 1904.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



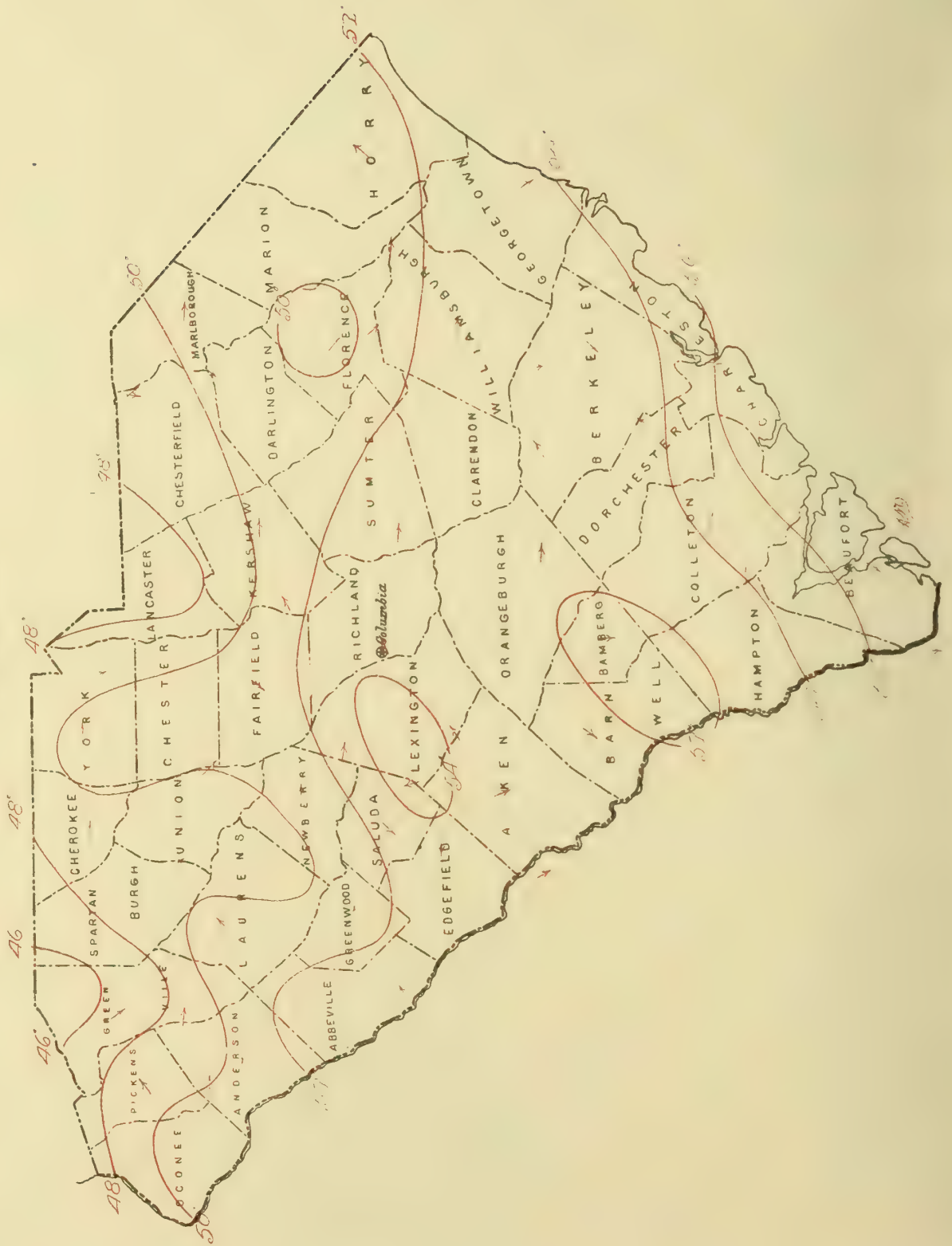
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

DECEMBER 22, 1904.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR NOVEMBER, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

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## PROGRESS OF FARM WORK.

The weather conditions throughout November were favorable for gathering what crops remained in the fields, consisting mainly of late, scattering bolls of cotton, although some fields received their first picking during the month; gathering and husking corn; picking seed-peas; digging and pitting sweet potatoes; and gathering minor crops such as turnips, pea-nuts, and other root crops.

A general killing frost, except along the coast where it was a heavy frost, on the 15th, with freezing temperatures and thin ice over the upper parts of the State, stopped all further growth except of the very hardiest vegetables in the coast truck regions, and ended the growing season of 1904.

The temperature averaged slightly below normal, but was never cold enough to afford safe opportunity for butchering farm-hogs, save in the western portions where much meat was cured and packed.

Plowing was delayed by drought, but enough rain fell early in the month to soften the ground and permit preparation of lands for wheat and oats, and a large acreage of both grains was sown during the month. Germination was slow, owing to the prevailing cool weather, but was in the main satisfactory. Wheat and oats seeding was not finished.

Rice thrashing was practically finished, and the yields were not as large as the mid-summer condition indicated that they would be.

The yields of corn came up to expectation, and gathering confirmed the earlier promising reports. Both early and late planted corn were equally good.

There were generally poor yields of minor fall crops over the western parts, attributable to the long and severe drought during September and October; in the eastern parts where the rainfall was more copious, the fall crops were generally excellent.

During November, as during the previous gathering season this year, there was practically no loss in harvesting from bad weather, and all crops were saved in the very best condition.

Barometer and Wind Table for November, 1904.

| STATIONS               | BAROMETER |          |       |         |       | WIND            |                 |                   |            |       |
|------------------------|-----------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.     | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |           |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.09     | 30.45    | 17    | 29.59   | 13    | 4.852           | 5.4             | 39                | w.         | 13    |
| Charleston .....       | 30.07     | 30.42    | 17    | 29.59   | 13    | 6.845           | 6.5             | 45                | w.         | 13    |
| Charlotte, N. C. ....  | 30.09     | 30.40    | 17    | 29.39   | 13    | 4.377           | 6.0             | 35                | w.         | 14    |
| Columbia .....         | 30.07     | 30.46    | 17    | 29.46   | 13    | 6.786           | 9.4             | 49                | sw.        | 13    |
| Savannah, Ga. ....     | 30.07     | 30.41    | 17    | 29.66   | 13    | 5.121           | 7.1             | 38                | w.         | 13    |
| Wilmington, N. C. .... | 30.04     | 30.43    | 17    | 29.27   | 13    | 4.981           | 6.8             | 38                | w.         | 13    |
| Averages .....         | 30.07     | 30.49    | 17    | 29.27   | 13    | 5.326           | 7.4             | 45                | w.         | 13    |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for November, 1904, was 51.6°, which is 2.2° below normal. The highest local mean was 57.2° at Charleston; the lowest was 46.2° at Greenville. The monthly extremes were a maximum of 80° at Walhalla, on the 22nd, and a minimum of 22° at Greenville and Santuc on the 15th, making the State range 58°. The greatest local monthly range was 55° at Walhalla, the least was 37° at Charleston. The mean of the daily maximum temperatures was 63.6°, and of the daily minimum temperatures was 39.7°, making the average daily range 23.9°.

Frosts (First Killing of Season).—In addition to, and to complete the list published in the October number. On the 1st at Cheraw, Dillon, Logoff. On the 13th at Trenton. On the 14th at Aiken, Allendale, Anderson, Batesburg, Calhoun Falls, Camden, Edisto, Effingham, Georgetown, Kingstree, Pelzer, Pinopolis, St. George, St. Matthews, St. Stephens, Saluda, Smiths Mills, Summerville, Yemassee, Yorkville. On the 15th at Beaufort, Columbia, Conway, Society Hill, Walterboro, Winnsboro.

Ice.—Thin ice was quite general on the 1st, 14th and 15th.

## Precipitation, in Inches.

The precipitation averaged 2.78 inches, which is 0.05 below normal. The greatest monthly amount was 4.39 at Yorkville; the least was 1.20 at Conway. The greatest 24-hour fall was 2.06 at Stateburg on the 12th-13th. The average number of days with 0.01, or more, precipitation was 6, ranging from 1 at Allendale to 8 at Columbia, Little Mountain, Saluda and Trenton.

Sleet.—Columbia, 13th.

Snow.—Twenty-seven stations reported snow on the 13th, generally only a trace, but amounting to 2 inches at Batesburg. The snow melted as it fell.

Weather.—The average number of clear days was 17, of partly cloudy ones 6, and of cloudy ones 7.

Winds.—The prevailing direction of the wind was from the west at 17 stations, from the northwest at 10, from the southwest at 9, from the northeast at 7, from the north at 5, from the east at 2, and from the southeast at 1 station.

High Winds.—High winds, reaching velocities of 40 miles, or more, at many places, prevailed over the State on the 13th.



#### PROFITABLENESS OF COTTON RAISING.

It is the common opinion that the selling price of an agricultural product is alone the measure of its profitableness. Theoretically this is true, but in actual practice it is not wholly true, and in some instances is not even the most important factor, when productiveness is compared with crop prices.

By far the greater part of what the average farmer raises is for use and consumption on his farm, and the residue is the surplus on which alone the selling price has any effect so far as the farmer's finances are concerned. The case is different with the cotton farmer, for the entire production of this staple must be sold, and none can be profitably consumed on the farm, and yet a series of comparisons would indicate that the selling price of cotton is less important than the productiveness per acre, in calculating the profitableness of this crop.

The statement that more money is received for a small than for a large crop may be true, and yet the larger amount of money received for the smaller crop represents a loss to the cotton planter, in comparison with the smaller amount received for the larger crop. This view is less common, and it is based, of course, on the larger yield per acre of a large crop than a small one.

It may be assumed as an approximate fact, that the cost of cultivating an acre of cotton varies but little from year to year, far less than the price per pound or the yield per acre, and it may also be assumed to be constant in the same locality, however widely it may vary in different localities.

To illustrate all of the foregoing points, the value per acre has been calculated for the total cotton crop of South Carolina and Texas for a number of years, selected to represent the conditions briefly stated above. In 1878, the value per acre, in South Carolina was \$14.20; in Texas \$22.50; the price per pound was 11.2 cents. In 1894, the value for South Carolina was \$14.30, for Texas \$12.50, the price per pound 6.9 cents. In 1896 the values were for South Carolina \$15.90, for Texas 10.90, the price per pound 7.9 cents. In 1898, the year of greatest production for which values are available, the values were, for South Carolina \$11.00, for Texas \$13.80, the price per pound 5.9 cents.

The limits of this article will not permit a full discussion of the weather that prevailed, and the acreage cultivated, in connection with the amounts realized per acre, but it can be safely stated that the yield per acre is the controlling factor in the profitableness of raising cotton, rather than the price per pound. A large yield and high price would be the most profitable combination, but the rule of "supply and demand" asserts itself very quickly in such cases, operating on the variable factor, i. e., the price. The conclusion is that intensive farming will do more to make cotton raising profitable, than will varying the acreage from year to year in the hope of raising prices by limiting production, or of increasing the acreage to supply an existing deficiency at high prices. If the supply can be made fairly constant, the price will remain fairly constant. The effect of the weather on the growing crop is after all the main factor in the profitableness of raising cotton.

#### REMARKS BY OBSERVERS.

**BARKSDALE.**—The month was favorable for gathering crops, and for sowing small grain; cotton has about all been gathered. **BATESBURG.**—The month was very favorable for sowing grain, which was pushed, leaving but little more to be sown. There was a half hour snow flurry on the 13th, the snow melting as it fell. **BEAUFORT.**—The mean temperature was 2.8° below normal, accumulated deficiency since

January 1st is 532°. The precipitation was 1.94 inches above normal. Considerable oats and some fall truck were planted, with the weather favorable for both. **BOWMAN.**—There was very little rainy weather to retard farm work. Cotton nearly all gathered, fine yields—the best in many years. Some oats are up to good stands, sowing continues. Streams continue low. **CHERAW.**—From 1 to 1:30 p. m., of the 13th, snow fell, mixed with rain; the snow melted as it fell. **DUE WEST.**—Flurry of snow on the 13th. **HEATH SPRINGS.**—Fine weather prevailed during the month. All crops have been gathered, and the usual amount of small grain has been sown, and looks promising. **LIBERTY.**—Fine month for farm work, with sufficient moisture for ground to be prepared and planted to wheat and oats, which work was pushed, and some have come up in good condition. **LUGOFF.**—A large acreage of small grain is indicated, and some oats have been sown. Some cotton still to pick. All corn gathered, and the crop is good. Some hogs have been killed. **NEWBERRY.**—Cool month. Splendid weather for gathering crops, and nearly all cotton has been picked. **SOCIETY HILL.**—First killing frost on the 15th. Acreage in oats large, mostly planted with drill. Weather very fine for all farm work. **STATEBURG.**—Weather conditions quite favorable for the maturing and gathering of late fall crops, i. e., late corn, peas, sweet potatoes and hay. Very little cotton was damaged by the killing frost, and picking was practically completed at the close of the month. **TRENTON.**—Precipitation 0.50 inch less than normal, and is 17.52 inches less than the average for the first 11 months of the year.

#### MISCELLANEOUS PHENOMENA (with dates).

**Aurora.**—Santuc on the 21st.  
**Earthquake.**—Summerville, on the 15th at 12:22 a. m.  
**Thunderstorms.**—Summerville, 22nd; Charleston, 22nd.  
**Fogs, Dense.**—Charleston, 16, 20th; Liberty 5th.  
**Lunar Halos.**—Charleston, 20, 25th; Little Mountain, 2, 20, 26th; Santuc, 20–26th; Stateburg, 25th.  
**Solar Halos.**—Beaufort, 10th; Charleston, 1, 9, 10, 20, 26, 27, 29, 30th; Seivern 11th; Statesburg, 10, 29.

#### CORRECTIONS.

In the October 1904, Monthly Report, the following corrections should be made: On page 5, the mean temperature at Saluda 65.6°, should be 60.6°; at Santuc 58.7° should be 59.7°.

#### SUNSHINE RECORDS.

An automatic record of the amount of sunshine—the converse of the amount of cloudiness—is obtained by various instruments. Some employ a sphere of glass by which the sun's rays are focused on a curved sheet of paper at all hours of the day; others secure a photographic print of the track of a fine solar ray that falls through a minute aperture on sensitive paper. In all cases, even a faint cloudiness over the sun may be recognized by a weakening of the record, and heavy clouds covering the sun prevent any record being made. The hours of sunshine for a month, divided by the total number of day-time hours in the month, give an indication of the prevalence of clear or cloudy weather.



## CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER, 1904.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                   | Sky.               |                    |                            |                     | Prevailing direction of wind. | Observers.            |
|---------------------------------------|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|-----------------------|
|                                       |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total (unmelted). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. |                               |                       |
| Aiken.                                | Aiken.        | 565             | 3                       | 52.4                               | -2.5                       | 78       | 6     | 26      | 28    | 35                       | 2.45   | -0.24                      | 1.00                  | 0                 | 4                  | 26                 | 2                          | 2                   | nw.                           | C. F. McGahan, M. D.  |
| Allendale.                            | Barnwell.     | 186             | 16                      | 51.7                               | -3.8                       | 74       | 9     | 26      | 29    | 27                       | 1.55   | -0.87                      | 1.55                  | 0                 | 1                  | 15                 | 0                          | 9                   | ...                           | C. A. Glover.         |
| Anderson.                             | Anderson.     | 764             | 3                       | 51.7                               | +1.6                       | 76       | 7     | 28      | *15   | 39                       | 2.12   | -1.13                      | 0.70                  | T.                | 6                  | 20                 | 6                          | 4                   | e.                            | R. B. Dean.           |
| Augusta, Ga.                          | Richmond.     | 134             | 33                      | 53.0                               | -0.4                       | 73       | 21    | 30      | 15    | 35                       | 2.21   | -0.84                      | 1.20                  | T.                | 8                  | 12                 | 12                         | 6                   | nw.                           | Weather Bureau.       |
| Barksdale.                            | Laurens.      | 780             | 3                       | 51.2                               | ...                        | 77       | 21    | 28      | 15    | 42                       | 2.02   | ...                        | 0.62                  | T.                | 5                  | 20                 | 6                          | 4                   | sw.                           | J. T. Garrett.        |
| Batesburg.                            | Lexington.    | 656             | 10                      | 51.2                               | +0.1                       | 75       | 21    | 30      | 28    | 36                       | 3.52   | +0.88                      | 1.17                  | 2.0               | 5                  | 17                 | 6                          | 7                   | se.                           | E. J. Hite.           |
| Beaufort.                             | Beaufort.     | 28              | 18                      | 56.5                               | -2.8                       | 75       | 1     | 33      | 28    | 30                       | 4.18   | +1.93                      | 1.53                  | 0                 | 5                  | 16                 | 8                          | 6                   | ne.                           | S. M. Benton.         |
| Bennettsville.                        | Marlboro.     | ...             | 3                       | 50.4                               | ...                        | 76       | 10    | 26      | *14   | 39                       | 3.45   | ...                        | 1.40                  | 0                 | 5                  | 25                 | 2                          | 3                   | w.                            | Jno. L. McCall.       |
| Blackville.                           | Barnwell.     | 296             | 16                      | 53.0                               | -2.7                       | 76       | *1    | 28      | *28   | 37                       | 2.78   | +0.70                      | 1.50                  | 0                 | 5                  | 15                 | 12                         | 3                   | ne.                           | G. D. C. Lange.       |
| Bowman.                               | Orangeburg.   | 160             | 3                       | 52.6                               | ...                        | 76       | 9     | 25      | *15   | 40                       | 2.93   | ...                        | 1.20                  | 0                 | 4                  | 15                 | 10                         | 5                   | w.                            | B. O. Evans.          |
| Calhoun Falls.                        | Abbeville.    | 508             | 11                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 2.49   | -0.83                      | 0.92                  | 0                 | 4                  | 20                 | 0                          | 10                  | sw.                           | P. J. Pfeiffer.       |
| Canden.                               | Kershaw.      | 222             | 38                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 3.12   | +0.78                      | 1.32                  | T.                | 6                  | 17                 | 5                          | 8                   | sw.                           | J. C. Whitaker.       |
| Charleston.                           | Charleston.   | 48              | 35                      | 57.2                               | -0.4                       | 75       | 21    | 38      | 14    | 24                       | 1.85   | -1.15                      | 1.15                  | 0                 | 6                  | 10                 | 13                         | 7                   | n.                            | Weather Bureau.       |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 26                      | 50.0                               | +0.1                       | 69       | 5     | 29      | 15    | 28                       | 3.01   | -0.04                      | 1.46                  | T.                | 7                  | 15                 | 6                          | 9                   | ne.                           | Weather Bureau.       |
| Cheraw (1).                           | Chesterfield. | 144             | 16                      | 49.6                               | -3.2                       | 73       | *10   | 27      | *15   | 40                       | 3.44   | +1.24                      | 1.51                  | T.                | 7                  | 14                 | 4                          | 12                  | n.                            | W. R. Godfrey.        |
| Cheraw (2).                           | ...           | 144             | 11                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 3.70   | +0.78                      | 1.40                  | T.                | 6                  | 16                 | 8                          | 6                   | nw.                           | Jno. H. Powe.         |
| Clarks Hill.                          | Edgefield.    | 456             | 2                       | 52.6                               | ...                        | 72       | *9    | 29      | 28    | 35                       | 2.18   | ...                        | 1.21                  | T.                | 4                  | 14                 | 8                          | 6                   | ...                           | Wm. S. Middleton.     |
| Clemson College.                      | Oconee.       | 850             | 13                      | 49.6                               | -1.6                       | 76       | 5     | 23      | 15    | 46                       | 2.41   | -0.80                      | 1.20                  | 0                 | 5                  | 10                 | 12                         | 7                   | w.                            | Prof. C. C. Newman.   |
| Columbia.                             | Richland.     | 351             | 17                      | 53.7                               | -0.9                       | 73       | 21    | 33      | 28    | 27                       | 2.11   | -0.23                      | 1.17                  | 0                 | 8                  | 13                 | 10                         | 7                   | sw.                           | Central Office.       |
| Conway.                               | Horry.        | 25              | 13                      | 51.6                               | ...                        | 76       | 21    | 25      | 15    | 40                       | 1.20   | -1.56                      | 0.50                  | 0                 | 5                  | 22                 | 6                          | 2                   | sw.                           | McQ. Quattlebaum.     |
| †Darlington.                          | Darlington.   | 175             | 9                       | 51.1                               | ...                        | 79       | 1     | 25      | 15    | 47                       | 2.81   | -0.06                      | 1.85                  | 0                 | 6                  | 19                 | 3                          | 8                   | ...                           | Miss Fanny G. McIver. |
| Dillon.                               | Marion.       | 100             | 0                       | 50.6                               | ...                        | 74       | 10    | 25      | 15    | 42                       | 2.82   | ...                        | 1.07                  | 0                 | 7                  | ...                | ...                        | ...                 | ...                           | A. E. Rowell.         |
| Due West.                             | Abbeville.    | 740             | 3                       | 52.7                               | ...                        | 77       | 8     | 31      | 15    | 37                       | 1.68   | ...                        | 1.02                  | 0                 | 3                  | 17                 | 6                          | 7                   | w.                            | Rev. O. Y. Bonner.    |
| Edisto.                               | Bamberg.      | 127             | 11                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 2.14   | -1.00                      | 0.80                  | T.                | 6                  | 15                 | 6                          | 9                   | n.                            | Mrs. M. Thompson.     |
| Edlingham.                            | Florence.     | 106             | 12                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 3.40   | +0.76                      | 0.90                  | T.                | 5                  | 18                 | 5                          | 7                   | nw.                           | H. B. McCall.         |
| Enore.                                | Spartanburg.  | 987             | ...                     | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                        | ...                   | T.                | 5                  | 19                 | 4                          | 7                   | nw.                           | E. P. Porter.         |
| Florence.                             | Florence.     | 136             | 16                      | 50.0                               | -5.3                       | 75       | 10    | 25      | 15    | 41                       | 3.09   | +0.64                      | 0.90                  | 0                 | 6                  | 19                 | 4                          | 7                   | nw.                           | H. K. Gilbert.        |
| Gaffney.                              | Cherokee.     | 893             | 8                       | 49.9                               | ...                        | 74       | 5     | 24      | 15    | 38                       | 3.76   | +0.12                      | 1.24                  | 0                 | 7                  | 20                 | 1                          | 9                   | w.                            | B. F. Camp.           |
| Georgetown.                           | Georgetown.   | 12              | 11                      | 53.9                               | -2.8                       | 72       | *9    | 32      | 14    | 31                       | 2.98   | +0.48                      | 1.40                  | 0                 | 3                  | ...                | ...                        | ...                 | nw.                           | Reid Whitford.        |
| Greenville.                           | Greenville.   | 989             | 12                      | 46.2                               | -4.3                       | 70       | *19   | 22      | 15    | 42                       | 3.70   | -0.20                      | 1.62                  | 0                 | 7                  | 18                 | 1                          | 11                  | nw.                           | Mrs. S. A. Crittenden |
| †Greenwood.                           | Greenwood.    | 671             | 16                      | 50.5                               | -1.9                       | 68       | *21   | 29      | 16    | 33                       | 2.32   | -0.72                      | 1.40                  | 0                 | 4                  | 22                 | 0                          | 8                   | w.                            | M. M. Calhoun.        |
| Heath Springs.                        | Lancaster.    | ...             | 3                       | 48.0                               | ...                        | 72       | 10    | 28      | 14    | 38                       | 3.42   | ...                        | 0.95                  | T.                | 6                  | 18                 | 6                          | 6                   | w.                            | J. A. Weaver.         |
| Kingstree (1).                        | Williamsburg. | 54              | 16                      | 52.4                               | -3.1                       | 74       | 21    | 29      | 28    | 30                       | 1.80   | -1.03                      | 0.87                  | T.                | 6                  | 20                 | 3                          | 7                   | w.                            | J. A. Scott.          |
| Kingstree (2).                        | ...           | 54              | 10                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 2.17   | -0.66                      | 0.95                  | T.                | 6                  | 19                 | 4                          | 7                   | w.                            | A. O. Matthews.       |
| Liberty.                              | Pickens.      | 900             | 10                      | 48.8                               | -1.5                       | 70       | *1    | 25      | 15    | 37                       | 3.33   | +0.40                      | 1.35                  | T.                | 7                  | 19                 | 5                          | 6                   | sw.                           | Jno. T. Boggs.        |
| Little Mountain.                      | Newberry.     | 711             | 11                      | 52.4                               | -3.1                       | 78       | 20    | 31      | 28    | 31                       | 2.94   | +0.23                      | 1.38                  | T.                | 8                  | 16                 | 9                          | 5                   | w.                            | John M. Sease, M. D.  |
| Lugoff.                               | Kershaw.      | 168             | 3                       | 51.3                               | ...                        | 74       | *1    | 24      | 15    | 41                       | 3.57   | ...                        | 1.15                  | 0                 | 6                  | 19                 | 2                          | 9                   | w.                            | W. J. Burdell, M. D.  |
| Newberry.                             | Newberry.     | 502             | 0                       | 50.6                               | -2.5                       | 72       | 10    | 25      | 15    | 40                       | 2.56   | -0.76                      | 1.32                  | T.                | 7                  | 16                 | 5                          | 9                   | w.                            | W. G. Peterson.       |
| Pelzer.                               | Anderson.     | 873             | ...                     | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 1.80   | ...                        | 1.00                  | T.                | 4                  | 17                 | 4                          | 9                   | w.                            | John M. Ward.         |
| †Pinopolis.                           | Berkeley.     | 54              | 11                      | 53.2                               | -2.0                       | 76       | 22    | 32      | *15   | ...                      | 2.98   | -0.09                      | 1.29                  | 0                 | 6                  | 19                 | 7                          | 4                   | ne.                           | E. P. Ravenel.        |
| St. Georges.                          | Dorchester.   | 109             | 16                      | 52.3                               | -3.5                       | 74       | 21    | 28      | 28    | 32                       | 1.92   | -0.54                      | 1.22                  | T.                | 5                  | 21                 | 4                          | 7                   | ...                           | W. B. Raysor.         |
| St. Matthews.                         | Orangeburg.   | 269             | 16                      | 52.5                               | -3.3                       | 72       | *10   | 30      | 28    | 35                       | 3.01   | -0.82                      | 1.95                  | 0                 | 5                  | 21                 | 3                          | 6                   | ...                           | J. S. Watnamaker.     |
| St. Stephens.                         | Berkeley.     | 73              | 12                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 2.34   | -0.13                      | 0.90                  | 0                 | 6                  | 18                 | 5                          | 7                   | n.                            | C. T. Shuler.         |
| Saluda.                               | Saluda.       | 536             | 3                       | 51.0                               | ...                        | 75       | 9     | 24      | 15    | 38                       | 2.65   | ...                        | 1.38                  | T.                | 8                  | 22                 | 2                          | 0                   | ne.                           | Alvin Etheridge.      |
| Santuc.                               | Union.        | 512             | 11                      | 48.8                               | -2.7                       | 71       | 5     | 22      | 15    | 42                       | 3.19   | -0.07                      | 1.49                  | T.                | 5                  | 18                 | 7                          | 5                   | nw.                           | E. W. Jeter.          |
| Savannah, Ga.                         | Chatham.      | 71              | 35                      | 57.8                               | 0.0                        | 75       | 21    | 38      | 28    | 28                       | 3.20   | +0.92                      | 1.89                  | 0                 | 8                  | 12                 | 10                         | 8                   | n.                            | Weather Bureau.       |
| Seivern.                              | Aiken.        | 482             | 3                       | 50.1                               | -4.9                       | 74       | 10    | 24      | *15   | 43                       | 2.42   | -0.72                      | 1.39                  | 0                 | 5                  | 16                 | 7                          | 7                   | sw.                           | Geo. C. Gunter.       |
| Smiths Mills.                         | Williamsburg. | 62              | 9                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 2.10   | -1.24                      | 0.60                  | 0                 | 6                  | 18                 | 6                          | 6                   | w.                            | H. van Keuren.        |
| Society Hill.                         | Darlington.   | 192             | 13                      | 50.1                               | -3.0                       | 70       | 21    | 28      | 14    | 31                       | 3.07   | +0.53                      | 1.65                  | T.                | 6                  | 18                 | 5                          | 7                   | ne.                           | J. J. Lucas.          |
| Spartanburg.                          | Spartanburg.  | 875             | 13                      | 49.8                               | -1.9                       | 73       | *1    | 25      | *15   | 41                       | 3.99   | +0.84                      | 1.88                  | T.                | 6                  | 18                 | 1                          | 11                  | ...                           | F. P. Robinson.       |
| Stateburg.                            | Sumter.       | 500             | 27                      | 53.4                               | -0.8                       | 74       | *10   | 30      | 28    | 32                       | 3.38   | +1.30                      | 2.06                  | 0                 | 6                  | 15                 | 6                          | 9                   | w.                            | W. W. Anderson, M. D. |
| Summerville.                          | Dorchester.   | 75              | 7                       | 53.2                               | -2.9                       | 74       | 21    | 28      | 27    | 35                       | 3.08   | -0.39                      | 1.39                  | 0                 | 5                  | 13                 | 3                          | 14                  | sw.                           | Miss E. H. Gadsden.   |
| Sumter.                               | Sumter.       | 169             | 3                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                        | ...                   | ...               | ...                | ...                | ...                        | ...                 | ...                           | Wm. D. Shaw.          |
| †Trenton.                             | Edgefield.    | 620             | 11                      | 52.9                               | -3.8                       | 71       | 10    | 32      | 28    | 27                       | 2.39   | -0.50                      | 1.34                  | T.                | 8                  | 20                 | 5                          | 5                   | e.                            | C. A. Long.           |
| †Trial.                               | Berkeley.     | 85              | 18                      | 52.6                               | -3.3                       | 75       | *9    | 25      | 15    | 39                       | 2.42   | -0.15                      | 1.22                  | 0                 | 2                  | 17                 | 7                          | 6                   | sw.                           | Etsell Gaillard.      |
| Walhalla.                             | Oconee.       | 1061            | 13                      | 50.8                               | +1.2                       | 80       | 22    | 25      | 14    | 38                       | 3.32   | -0.09                      | 1.20                  | 0                 | 5                  | 17                 | 6                          | 7                   | ...                           | J. D. Isbell.         |
| Walterboro.                           | Colleton.     | ...             | 1                       | 55.6                               | ...                        | 79       | 21    | 26      | 28    | 43                       | 2.54   | ...                        | 1.25                  | 0                 | 7                  | 19                 | 8                          | 3                   | w.                            | J. A. Westerberg.     |
| Wilmington, N. C.                     | New Hanover.  | 52              | 35                      | 52.7                               | -1.9                       | 73       | 22    | 31      | 28    | 33                       | 1.64   | -0.81                      | 0.81                  | 0                 | 7                  | 17                 | 7                          | 6                   | w.                            | Weather Bureau.       |
| Winnboro.                             | Fairfield.    | 545             | 15                      | 51.6                               | -1.9                       | 71       | *9    | 30      | *15   | 29                       | 3.01   | +0.01                      | 1.01                  | 0                 | 4                  | 13                 | 12                         | 5                   | ne.                           | John W. Seigler.      |
| Winthrop College.                     | York.         | 690             | 5                       | 50.2                               | -3.1                       | 77       | 2     | 27      | 15    | 33                       | 3.63   | +0.64                      | 1.79                  | T.                | 5                  | 20                 | 7                          | 3                   | nw.                           | Geo. B. Green.        |
| Yemassee.                             | Beaufort.     | 23              | 9                       | 53.3                               | -3.8                       | 74       | 21    | 31      | 28    | 31                       | 3.02   | +0.48                      | 1.10                  | 0                 | 4                  | 19                 | 3                          | 8                   | ...                           | J. G. Hutson.         |
| Yorkville.                            | York.         | 680             | 16                      | 51.8                               | -1.3                       | 72       | *5    | 28      | 15    | 34                       | 4.39   | +1.41                      | 1.82                  | T.                | 4                  | 12                 | 9                          | 9                   | w.                            | J. R. Schorb.         |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 51.6                               | -2.2                       | 80       | 22    | 22      | 15    | 47                       | 2.78   | -0.05                      | 2.06                  | T.                | 6                  | 17                 | 6                          | 7                   | w.                            | ...                   |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Minimum thermometer not standard. ‡ Not used in the means or summary, apparently too high.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.



STATIONS.

[illegible]



# TOTAL PRECIPITATION FOR NOVEMBER, 1904.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, NOVEMBER, 1904.

| STATIONS.         | Day of Month. |      |      |      |     |      |   |   |   |    |      |      |      |     |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | Total. |      |
|-------------------|---------------|------|------|------|-----|------|---|---|---|----|------|------|------|-----|----|----|----|----|----|----|----|------|------|-----|----|----|----|----|----|-----|------|--------|------|
|                   | 1             | 2    | 3    | 4    | 5   | 6    | 7 | 8 | 9 | 10 | 11   | 12   | 13   | 14  | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22   | 23   | 24  | 25 | 26 | 27 | 28 | 29 | 30  | 31   |        |      |
| Aiken             |               |      | .60  |      |     |      |   |   |   |    |      | .45  | 1.00 |     |    |    |    |    |    |    |    | .40  |      |     |    |    |    |    |    | T.  |      | 2.45   |      |
| Allendale         |               |      |      |      |     |      |   |   |   |    |      | 1.55 |      |     |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | 1.55   |      |
| Anderson          |               |      | .50  | .36  | .06 |      |   |   |   |    |      | .30  | .70  |     |    |    |    |    |    |    | T. | .20  |      |     |    |    |    |    |    |     |      | 2.12   |      |
| Augusta, Ga.      |               |      | .13  | .40  | .10 |      |   |   |   |    |      | .41  | .79  |     |    |    |    |    |    |    |    | .36  | .01  |     |    |    |    |    |    | T.  |      | 2.21   |      |
| Barksdale         |               |      | .62  | .60  |     |      |   |   |   |    |      | .20  | .50  |     |    |    |    |    |    |    |    | .10  |      |     |    |    |    |    |    |     |      | 2.02   |      |
| Batesburg         |               |      | .33  | 1.17 | .21 |      |   |   |   |    |      |      | .93  | .31 |    |    |    |    |    |    |    | .57  |      |     |    |    |    |    |    |     |      | 3.52   |      |
| Beaufort          |               | .23  | 1.37 | .09  |     |      |   |   |   |    |      | .55  | .44  |     |    |    |    |    |    |    |    | .02  | 1.48 |     |    |    |    |    |    |     |      | 4.18   |      |
| Bennettsville     |               |      |      |      | .15 | 1.40 |   |   |   |    | 1.00 | .65  |      |     |    |    |    |    |    |    |    | .25  |      |     |    |    |    |    |    |     |      | 3.45   |      |
| Blackville        |               |      | .33  | .19  | .02 |      |   |   |   |    |      | 1.50 |      |     |    |    |    |    |    |    |    |      | .44  |     |    |    |    |    |    |     |      | 2.78   |      |
| Bowman            | T.            | .40  | .73  | T.   | T.  |      |   |   |   |    |      | 1.20 | T.   |     |    |    |    |    |    |    |    |      | .60  |     |    |    |    |    |    |     |      | 2.93   |      |
| Calhoun Falls     |               |      | .76  | .92  |     |      |   |   |   |    |      |      | .57  | .24 |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | 2.49   |      |
| Camden            |               |      | .09  | 1.12 | .15 |      |   |   |   |    |      |      | 1.32 | .12 |    |    |    |    |    |    |    |      | .32  |     |    |    |    |    |    |     |      | 3.12   |      |
| Charleston        | T.            | 1.15 | .01  | T.   |     |      |   |   |   |    |      | .11  | .18  |     |    |    |    |    |    |    |    | .06  | .34  |     |    |    |    |    |    | T.  |      | 1.85   |      |
| Charlotte, N. C.  |               |      | .43  | .97  | .10 |      |   |   |   |    |      | .16  | 1.30 | T.  |    |    |    |    |    |    |    | .03  |      |     |    |    |    |    |    |     | .02  | 3.01   |      |
| Cheraw(1)         |               |      | .10  | .93  | .46 |      |   |   |   |    |      | 1.51 | .30  |     |    |    |    |    |    |    |    | .01  | .13  |     |    |    |    |    |    |     |      | 3.44   |      |
| Cheraw(2)         |               |      | .12  | .98  | .58 |      |   |   |   |    |      | 1.40 | .47  |     |    |    |    |    |    |    |    |      | .15  |     |    |    |    |    |    |     |      | 3.70   |      |
| Clark's Hill      |               | T.   | .68  | .21  |     |      |   |   |   |    |      | 1.21 | T.   |     |    |    |    |    |    |    |    | .08  |      |     |    |    |    |    |    | T.  |      | 2.18   |      |
| Clemson College   |               |      | 1.20 | .10  |     |      |   |   |   |    |      | .25  | .82  |     |    |    |    |    |    |    | T. | .04  |      |     |    |    |    |    |    |     |      | 2.41   |      |
| Columbia          |               | T.   | .14  | .42  | .01 |      |   |   |   |    |      | .26  | 1.07 |     |    |    |    |    |    |    |    | .05  | .15  |     |    |    |    |    |    | .01 | 2.11 |        |      |
| Conway            |               |      | .15  | .30  | .10 |      |   |   |   |    |      |      | .50  |     |    |    |    |    |    |    |    |      | .15  |     |    |    |    |    |    |     |      | 1.20   |      |
| Darlington        |               |      | .24  | .41  | .07 |      |   |   |   |    |      | .12  | 1.73 |     |    |    |    |    |    |    |    | T.   | .24  |     |    |    |    |    |    |     |      | 2.81   |      |
| Dillon            |               | .01  | .46  | .61  |     |      |   |   |   |    |      | .12  | 1.07 |     |    |    |    |    |    |    |    | T.   | T.   | .47 |    |    |    |    |    | .03 |      | 2.82   |      |
| Due West          |               | T.   | .64  |      |     |      |   |   |   |    |      | T.   | 1.02 |     |    |    |    |    |    |    |    | .02  |      |     |    |    |    |    |    |     |      | 1.68   |      |
| Edisto            |               |      | .03  | .50  | .02 |      |   |   |   |    |      | .70  | .09  |     |    |    |    |    |    |    |    |      | .80  |     |    |    |    |    |    |     |      | 2.14   |      |
| Effingham         |               |      | T.   | .60  | .70 |      |   |   |   |    |      | .90  | .60  |     |    |    |    |    |    |    |    |      | T.   | .60 |    |    |    |    |    |     |      | 3.40   |      |
| Enore             |               |      |      |      |     |      |   |   |   |    |      |      |      |     |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | 3.09   |      |
| Florence          |               |      | .24  | .23  | .23 |      |   |   |   |    |      | .90  | .90  |     |    |    |    |    |    |    |    | .59  |      |     |    |    |    |    |    |     |      | 3.76   |      |
| Gaffney           |               |      | .18  | 1.34 | .24 |      |   |   |   |    |      | 1.60 | .24  |     |    |    |    |    |    |    |    | .06  | .10  |     |    |    |    |    |    | T.  |      | 2.98   |      |
| Georgetown        |               |      | 1.35 |      |     |      |   |   |   |    |      | 1.40 |      |     |    |    |    |    |    |    |    |      | .23  |     |    |    |    |    |    |     |      | 3.70   |      |
| Greenville        |               |      | .30  | 1.26 | .19 |      |   |   |   |    |      | 1.62 | .06  |     |    |    |    |    |    |    |    | .02  | .25  |     |    |    |    |    |    |     |      | 2.32   |      |
| Greenwood         |               |      | .12  | .75  | .05 |      |   |   |   |    |      | 1.40 |      |     |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | 3.42   |      |
| Heath Springs     |               |      | .80  | .95  |     |      |   |   |   |    |      | .67  | .90  |     |    |    |    |    |    |    |    | .09  |      |     |    |    |    |    |    | .01 |      | 1.80   |      |
| Kingstree(1)      |               |      | .02  | .28  | T.  |      |   |   |   |    |      | .87  | .08  |     |    |    |    |    |    |    |    |      | .53  | .02 |    |    |    |    |    |     |      | 2.17   |      |
| Kingstree(2)      |               |      | .10  | .45  | T.  |      |   |   |   |    |      | .95  | .06  |     |    |    |    |    |    |    |    |      | .60  | .01 |    |    |    |    |    |     |      | 3.33   |      |
| Liberty           |               | T.   | .50  | 1.05 | .02 |      |   |   |   |    |      | .15  | 1.35 |     |    |    |    |    |    |    | T. | .24  |      |     |    |    |    |    |    |     | .02  | 2.94   |      |
| Little Mountain   |               | T.   | .51  | .44  | .04 |      |   |   |   |    |      | .24  | 1.38 |     |    |    |    |    |    |    |    | .01  | .27  |     |    |    |    |    |    |     |      | 3.57   |      |
| Lugoff            |               | T.   | .50  | 1.15 | .10 |      |   |   |   |    |      | .50  | 1.10 |     |    |    |    |    |    |    | T. | T.   |      |     |    |    |    |    |    | .22 |      | 2.56   |      |
| Newberry          |               |      | .11  | .80  | .07 |      |   |   |   |    |      | 1.32 | .21  |     |    |    |    |    |    |    |    | .03  |      |     |    |    |    |    |    |     | .02  | 1.80   |      |
| Pelzer            |               |      | .50  | .10  |     |      |   |   |   |    |      | 1.00 | .20  |     |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | 2.98   |      |
| Pinopolis         | .43           | .40  | .20  |      | T.  |      |   |   |   |    |      | .66  |      |     |    |    |    |    |    |    |    | .29  | 1.00 |     |    |    |    |    |    |     |      | 1.92   |      |
| St. Georges       |               |      | .30  | .10  | T.  |      |   |   |   |    |      | 1.22 | .10  |     |    |    |    |    |    |    |    | .20  |      |     |    |    |    |    |    |     |      | 3.01   |      |
| St. Matthews      |               |      | .26  | .42  | T.  |      |   |   |   |    |      | 1.95 | .08  |     |    |    |    |    |    |    |    |      | .30  |     |    |    |    |    |    |     |      | 2.34   |      |
| St. Stephens      |               |      | .18  | .35  | .03 |      |   |   |   |    |      | .65  |      |     |    |    |    |    |    |    |    |      | .90  | .23 |    |    |    |    |    |     |      | 2.65   |      |
| Saluda            |               |      | .57  | .38  | .02 |      |   |   |   |    |      | .23  | 1.38 |     |    |    |    |    |    |    |    | .03  | .02  |     |    |    |    |    |    |     | .02  | 3.19   |      |
| Santuc            |               | T.   | .69  | .81  | .06 |      |   |   |   |    |      | .14  | 1.49 |     |    |    |    |    |    |    |    | T.   |      |     |    |    |    |    |    |     |      | 3.20   |      |
| Savannah, Ga.     |               | .75  | 1.17 | .02  | .02 |      |   |   |   |    |      | .73  | .13  |     |    |    |    |    |    |    |    | .28  |      |     |    |    |    |    |    |     |      | 2.42   |      |
| Seivern           |               |      | .28  | .47  | .04 |      |   |   |   |    |      | 1.39 |      | T.  |    |    |    |    |    |    |    |      | .24  |     |    |    |    |    |    |     |      | 2.10   |      |
| Smiths Mills      |               |      | .10  | .50  | .30 |      |   |   |   |    |      | .60  | .20  |     |    |    |    |    |    |    |    |      | .40  |     |    |    |    |    |    |     |      | 3.07   |      |
| Society Hill      |               |      | .10  | .55  | .43 |      |   |   |   |    |      | 1.65 | .28  |     |    |    |    |    |    |    |    | .08  |      |     |    |    |    |    |    |     |      | 3.99   |      |
| Spartanburg       |               |      | .20  | 1.88 | .11 |      |   |   |   |    |      | .16  | .60  | .10 |    |    |    |    |    |    |    |      | .10  |     |    |    |    |    |    |     |      | 3.38   |      |
| Stateburg         |               | T.   | .32  | .37  |     |      |   |   |   |    |      | .83  | 1.36 |     |    |    |    |    |    |    |    |      | .35  | .15 |    |    |    |    |    |     | T.   | 3.08   |      |
| Summerville       |               | .42  | .42  | T.   |     |      |   |   |   |    |      | .82  |      |     |    |    |    |    |    |    |    | 1.39 | .03  |     |    |    |    |    |    |     |      | 2.39   |      |
| Sumter            |               |      |      |      |     |      |   |   |   |    |      |      |      |     |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | 2.42   |      |
| Trenton           |               | .02  | .63  | .19  |     |      |   |   |   |    |      | .43  | .91  |     |    |    |    |    |    |    |    |      | .12  | .07 |    |    |    |    |    |     | .02  | 3.32   |      |
| Trial             |               |      | 1.20 | .40  | .25 |      |   |   |   |    |      | T.   | .95  |     |    |    |    |    |    |    | T. | .52  |      |     |    |    |    |    |    |     |      | 2.54   |      |
| Wallhalla         |               |      | 1.20 | .40  | .25 |      |   |   |   |    |      | .12  | .55  |     |    |    |    |    |    |    |    | .02  | .56  |     |    |    |    |    |    |     |      | 1.64   |      |
| Walterboro        |               | .01  | 1.25 | .03  |     |      |   |   |   |    |      | .01  | .19  |     |    |    |    |    |    |    |    |      | .22  | .14 |    |    |    |    |    |     |      | 3.01   |      |
| Wilmington, N. C. |               |      | .38  | .68  | .02 |      |   |   |   |    |      | .01  | .19  |     |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | T.     | 3.63 |
| Winnsboro         |               |      |      | .50  |     | .70  |   |   |   |    |      |      | .80  |     |    |    |    |    |    |    |    |      |      |     |    |    |    |    |    |     |      | T.     | 3.02 |
| Winthrop College  |               |      | .48  | 1.12 | .08 |      |   |   |   |    |      | .16  | 1.79 | T.  |    |    |    |    |    |    |    | T.   |      |     |    |    |    |    |    |     |      | T.     | 4.39 |
| Yemassee          |               |      | .26  | .65  | T.  |      |   |   |   |    |      | T.   | 1.01 |     |    |    |    |    |    |    |    |      | 1.10 |     |    |    |    |    |    |     |      |        | 3.02 |
| Yorkville         |               |      | .67  | 1.76 |     |      |   |   |   |    |      | .14  | 1.82 |     |    |    |    |    |    |    |    | T.   |      |     |    |    |    |    |    |     |      |        | 4.39 |

T indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR DECEMBER, 1904.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



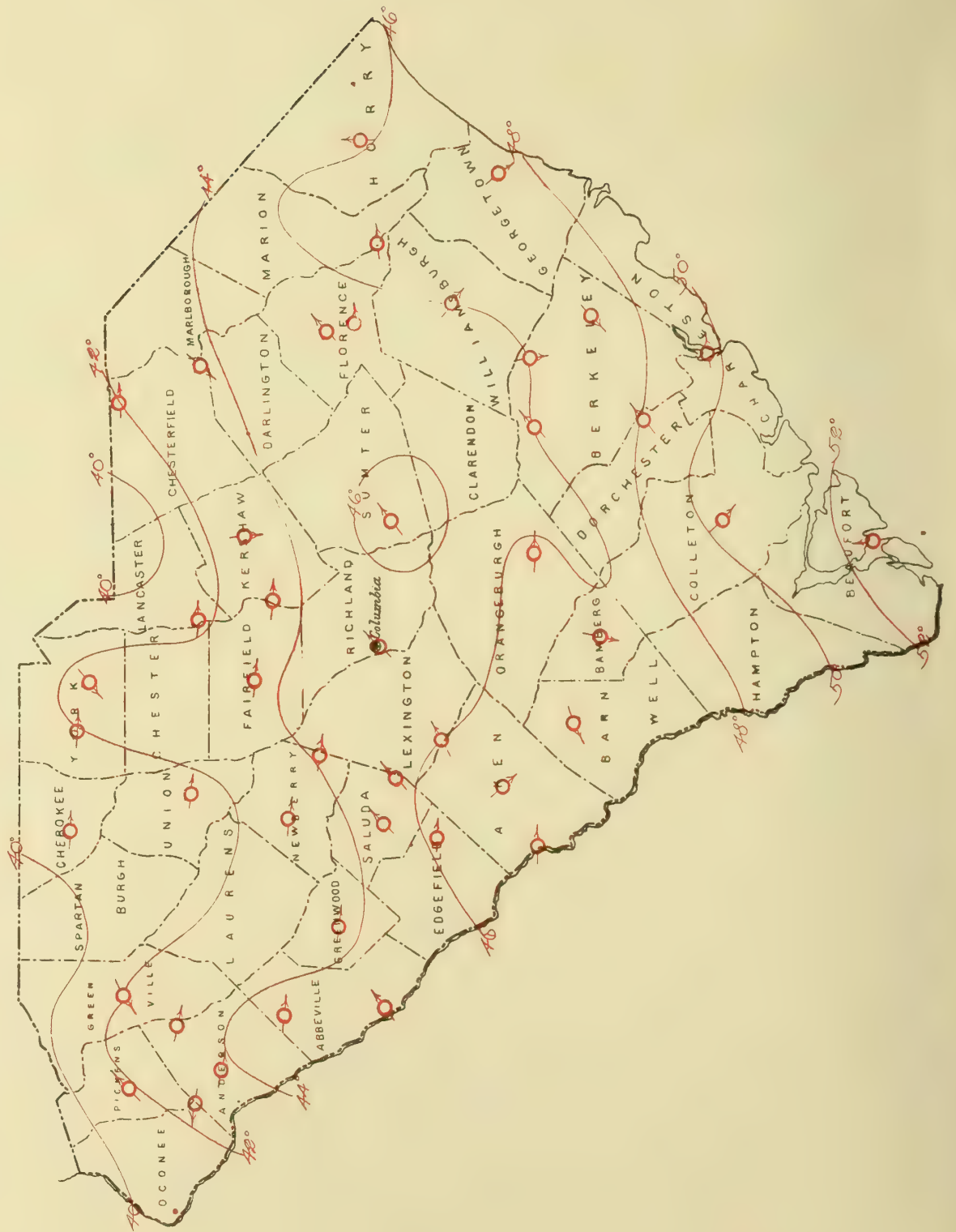
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

JANUARY 23, 1905.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1904.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. VII. COLUMBIA, S. C., DECEMBER, 1904. No. 12.

## PROGRESS OF FARM WORK.

Without having had any severe cold waves, or unusually low temperatures, the month was colder than usual, especially in the western portions where, during a large portion of the time, the ground was frozen each morning, and where, during the middle of the month, the ground was covered with snow for several days. These conditions interfered with finishing the seeding of wheat and oats and the germination of that that was sown late in November, although prompt advantage was taken of the portion of the month that was suitable for sowing oats and wheat and considerable advance was made in this work.

In the central and eastern portions the weather was more favorable and seeding operations were finished. In these divisions, too, germination was favorable and oats are up to fair stands, although the stands are smaller than usual to the season.

The precipitation was less evenly distributed than in November, but was approximately normal for the whole State. That portion in the form of rain fell gently and slowly and was practically all absorbed by the soil as it fell, while that portion in the form of snow and sleet melted slowly and was also absorbed, so that the ground was kept thoroughly moist, and in many places wet, making the comparatively small amount of precipitation more efficient in supplying the soil with the greatly needed water, after the severe drought of the autumn, than heavier rains would have been.

The weather was fairly favorable on winter trucking interest along the coast except for a killing frost on the 13th that damaged the more tender varieties of vegetables severely.

There was little, if any, fall plowing done in preparation for spring planting, as the soil was not in condition except on dry uplands.

Streams continued exceptionally low, though rising slowly towards the close of the month.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for December, 1904, was 45.5°, which is 1.5° below normal. The highest local mean was 51.2° at Beaufort; the lowest was 49.1° at Greenville. The monthly extremes were a maximum of 78° at Seivern on the 24th, and at Cheraw on the 27th, and a minimum of 16° at Clemson College on the 19th and at Walhalla on the 29th, making the State range 62°. The greatest local range was 59° at Seivern, the least was 43° at Charleston. The mean of the daily maximum temperatures was 54.9°, and of the daily

minimum temperatures was 36.1°, making the average daily range 18.8°.

Killing Frost.—First of season not previously published—Charleston, 13th.

## Precipitation, in Inches.

The precipitation averaged 2.79 inches, which is 0.45 below normal. The greatest local amount was 4.90 at Greenville, the least was 1.08 at Charleston. The greatest 24-hour fall was 2.00 at Walhalla on the 4th. The average number of days with 0.01 inch, or more, of precipitation was 9, ranging from 3 at Allendale and Trial to 13 at Gaffney, Greenville and Newberry.

Sleet.—Sleet was reported from Beaufort, Cheraw, Darlington, Due West, Columbia, Trenton, Winnsboro, 15th; Blackville, 17th; Greenville, 12th; Heath Springs, Newberry, Summerville, 14th; Lugoff, 15-19th; Saluda, 12-14-15th; Santuc, 15-17th; Society Hill, 11-14th; Spartanburg, 11th.

Ice Coating.—Rain that froze as it fell, forming an ice coating, was noted as follows: Aiken, 13th; Batesburg, Clarks Hill, Columbia, Seivern, 15th; Beaufort, 26th; Cheraw, 12th.

Snow.—Snowfall of measureable amount was confined to the northwestern counties, with a maximum fall of 7.0 inches at Gaffney. The dates of snowfall were from the 14th to 17th. The snow melted quickly after the 17th.

Weather.—The average number of clear days was 14, of partly cloudy ones 5, and of cloudy ones 12.

Winds.—The prevailing direction of the wind was from the west at 20 stations, from the southwest at 11, from the northeast at 6, from the northwest at 4, from the north at 3, and from the east and south at 2 each.

High Winds.—Cheraw, Clarks Hill, Liberty, 28th; Columbia, 10-14-17-27-28th; Heath Springs, 27-28; Little Mountain, Lugoff, 28-29th; Newberry, 27th; Summerville, 5-17-27th.

## MISCELLANEOUS PHENOMENA (with dates).

Earthquake.—Summerville, 6th at 5:48 p. m.

Lunar Halos.—Charleston, 22, 23.

Solar Halos.—Charleston, 4, 9, 11, 24, 27, 28; Little Mountain, Stateburg, 11.

Thunderstorms.—Bowman, Lugoff, Stateburg, Summerville, Walterboro, 17; Newberry, Trenton, 27. Making 7 thunderstorms on 2 dates. Charleston also reported thunderstorms on the 5-6th.

Fogs, Dense.—Anderson, 3, 25; Beaufort, 2, 3, 26; Blackville 16; Charleston, 2, 4, 25, 26; Columbia, 2, 3, 4, 5, 10, 16, 17, 26; Gaffney, 26, 27; Greenville, 4, 10, 27; Liberty, 3, 4, 5, 7, 10, 16, 24, 25, 26, 27; Little Mountain, 10, 16; Lugoff, 27; Newberry, Santuc, 26; Stateburg, 7, 26; Yorkville, 3, 6, 9, 16, 26, 27.

Barometer and Wind Table for December, 1904.

| STATIONS.            | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                      | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                      |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....     | 30.13      | 30.50    | 22    | 29.69   | 27    | 4.772           | 6.4             | 36                | W.         | 17    |
| Charleston.....      | 30.12      | 30.49    | 22    | 29.72   | 27    | 7.616           | 10.2            | 34                | W.         | 28    |
| Charlotte, N. C..... | 30.12      | 30.53    | 22    | 29.73   | 27    | 5.409           | 7.7             | 34                | SW.        | 28    |
| Columbia.....        | 30.11      | 30.50    | 22    | 29.64   | 27    | 7.171           | 9.6             | 40                | SW.        | 17    |
| Savannah, Ga.....    | 30.13      | 30.47    | 22    | 29.77   | 27    | 5.759           | 8.0             | 28                | W.         | 17    |
| Wilmington, N. C.... | 30.09      | 30.52    | 22    | 29.64   | 27    | 5.961           | 8.2             | 34                | SW.        | 27    |
| Averages.....        | 30.12      | 30.53    | 22    | 29.63   | 27    | 6.115           | 8.2             | 40                | SW.        | 17    |



## REMARKS BY OBSERVERS.

BEAUFORT.—The mean temperature was  $2.0^{\circ}$  above normal; precipitation 0.85 inch less. Accumulated deficiency in temperature since January 1, 1904, is  $529^{\circ}$ ; accumulated excess in precipitation since January 1, 1904, is 0.09 inches. The month was favorable for work on the truck farms. BOWMAN.—The precipitation was below normal for December. About an average small grain crop was planted, and is up to fairly good stands. Some scattered cotton yet to pick. HEATH SPRINGS.—The December temperature was about normal. Small grain crops look well. LIBERTY.—Owing to frequent rains there was no plowing done, and small grain seeding has not been finished. There was much cold, frosty weather. Wheat and other small grains look well, and the acreage is large. LUGOFF.—A large acreage was sown to oats, and it is up to good stands. Although the ground froze frequently, it did no material damage. NEWBERRY.—Cotton picking completed. Grain doing well. SALUDA.—There were many heavy frosts this month. SOCIETY HILL.—Oats and other small grains uninjured by frosts thus far. Temperature  $2.2^{\circ}$  above normal. STATEBURG.—From the 10th to 20th, steady but moderately low temperatures prevailed, with frosts every morning and generally with thin ice. A cold wave, accompanied by high winds, brought the coldest temperature of the season on the 29th with a minimum of  $25^{\circ}$ . Not much farm work done during the month. TRENTON.—Sleet and a hard freeze on the 15th did some damage to fruit trees. Precipitation 0.93 inch more than normal; the total for the year is 35.40 inches which is 16.65 inches below normal.

## PHENOLOGICAL OBSERVATIONS.

Records showing the time of leafing and blooming of trees and the ripening of their fruit, the time of beginning and ending of preparation of lands for the various crops, the time of planting, cultivation and fruitage, etc., for a long term of years have not been kept generally, and only rarely by individuals for their own pleasure or benefit. Perhaps orchardists have kept such records for the different kinds of fruit trees of which they made specialties; or experiment stations in testing varieties, but no department of the government has undertaken such a collection until early in 1904 the Weather Bureau made a beginning.

Realizing the extreme value of such records for a long series of years, Forms were prepared and issued through section directors, in which space was given for recording the first leaves, woods green, leaves coloring, and leaves falling, of forest trees, of early, medium and late varieties. The first leaves, first blooms, full bloom, period of harvest and character of yield of fruit trees, vines and shrubs. The beginning and ending of preparation of the soil, the beginning and ending of planting, special stage of development, and the period of harvest including the beginning and ending of the same and the quantity and quality of the yields of the principal staple crops, cereals, grasses, vegetables, etc.

These Forms were issued to selected voluntary observers throughout the whole United States. In this section, the selection was made from among those voluntary observers

whose known occupation takes them into the woods and afield. Much careful observation of the phenomena of nature is required in accurately making the called-for entries on these Forms.

One year's observation by itself, while extremely interesting, does not yield the full results that are hoped for from these phenological reports, although it does illustrate the march of the season from the southernmost parts of the country to its northernmost parts, as far as it relates to the preparation of lands and the planting of crops, in the spring, and the retrogression of the season in autumn, as shown by the times of ripening and harvesting, incidentally showing the shorter time required for the life history of the same crop in the northern portions. It will also help to define the zones, belts or regions of the various crops enumerated on the Forms, and may possibly help to encourage the cultivation of crops in regions where they are now unknown.

It will be, however, from a long series of these observations, made at each point by the same observer to eliminate the variations of personal judgment that might vitiate them for comparative purposes, that the greatest benefits are looked for. At present much stress is laid on the earliness or lateness of a given season, in the belief that it affects the ultimate yield or quality of the crops. These reports will help definitely to determine whether a season is or is not early or late in any given region, and in connection with the detailed records of the weather as now collected and published by the Weather Bureau, will assist materially to determine whether an early, an average or normal, or a late season results to the best advantage to the farmer, thus affording them, and all others interested, a possible forecast of the probable quantity and quality of the staple crops that may be expected at harvest time.

To him who loves to investigate the workings of natural laws as they are related to, and operate on the seasons and vegetation, these reports will be invaluable aids, irrespective of their commercial value, and if these reports will induce a closer and more minute observation of nature by, if not a majority of people, at least a large number, they will amply have repaid the labor of making, collecting and publishing them.

It is a matter of regret that there was not the interest taken in these phenological Forms that was hoped for, by all the selected voluntary observers in South Carolina, and only four out of the fourteen to whom blanks were sent returned them in completed form. Yet there was encouragement in the reports from some of the others who expressed their regrets, and promised to render better reports for the year 1905. Should any voluntary observers, other than those to whom blanks were sent last year, desire to engage in these observations they will be supplied with the necessary blank Forms, on application, which should be made during January or early in February so that the very earliest occurrences may be noted without recourse to memory.

A summary of the 1904 observations will be published in the January number of the Monthly Report.



CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER, 1904.

| STATIONS.                             | Counties.         | Elevation—feet. | Length of record—years. | Temperature in degrees Fahrenheit. |                            |          |       |         |       | Precipitation in inches. |        |                            |                       | Sky.                       |                    |                    |                            |                     |                               | Observers.             |
|---------------------------------------|-------------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|------------------------|
|                                       |                   |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. |                        |
| Aiken.....                            | Aiken.....        | 565             | 3                       | 46.4                               | 2.2                        | 77       | 27    | 21      | 29    | 34                       | 3.25   | +0.13                      | 1.05                  | 0                          | 8                  | 20                 | 5                          | 6                   | nw.                           | C. F. McGahan, M. D.   |
| Allendale.....                        | A. Barnwell.....  | 186             | 16                      |                                    |                            |          |       |         |       |                          | 1.60   | -0.62                      | 1.15                  | 0                          | 3                  | 16                 | 0                          | 15                  | w.                            | C. A. Glover.          |
| Anderson.....                         | Anderson.....     | 764             | 3                       | 45.1                               | +1.1                       | 74       | 27    | 18      | 29    | 39                       | 4.38   | +1.38                      | 1.40                  | 0.8                        | 8                  | 14                 | 7                          | 10                  | w.                            | R. B. Dean.            |
| Augusta, Ga.....                      | Richmond.....     | 134             | 33                      | 47.2                               | -0.5                       | 75       | 27    | 24      | 30    | 37                       | 2.48   | -0.93                      | 1.10                  | 0                          | 12                 | 13                 | 8                          | 10                  | w.                            | Weather Bureau.        |
| Barksdale.....                        | Laurens.....      | 780             | 3                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | J. T. Garrett.         |
| Batesburg.....                        | Lexington.....    | 656             | 16                      | 46.0                               | -0.4                       | 75       | 27    | 21      | 29    | 34                       | 3.29   | +0.84                      | 1.21                  | 0                          | 9                  | 16                 | 4                          | 11                  | sw.                           | E. J. Hite.            |
| Beaufort.....                         | Beaufort.....     | 28              | 18                      | 52.1                               | -0.2                       | 70       | 10    | 27      | 30    | 33                       | 1.50   | -0.85                      | 0.77                  | 0                          | 11                 | 12                 | 7                          | 8                   | s.                            | S. M. Benton.          |
| Bennettsville.....                    | Marlboro.....     |                 | 3                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | Jno. L. McCall.        |
| Blackville.....                       | Barnwell.....     | 296             | 16                      | 47.1                               | +0.2                       | 77       | 27    | 22      | 16    | 44                       | 2.39   | -1.22                      | 0.73                  | 0                          | 11                 | 13                 | 10                         | 8                   | ne.                           | G. D. C. Lange.        |
| Bowman.....                           | Orangeburg.....   | 160             | 3                       | 47.6                               |                            | 76       | 27    | 23      | 20*   | 38                       | 2.07   | -1.10                      | 1.05                  | 0                          | 7                  | 13                 | 12                         | 6                   | w.                            | B. O. Evans.           |
| Calhoun Falls.....                    | Abbeville.....    | 508             | 11                      |                                    |                            |          |       |         |       |                          | 2.54   | -1.10                      | 0.62                  | 0                          | 8                  | 12                 | 0                          | 19                  | sw.                           | P. J. Pfeiffer.        |
| Camden.....                           | Kershaw.....      | 222             | 38                      |                                    |                            |          |       |         |       |                          | 2.57   | -0.58                      | 1.00                  | 0                          | 6                  | 13                 | 2                          | 16                  | w.                            | J. C. Whitaker.        |
| Charleston.....                       | Charleston.....   | 48              | 35                      | 50.5                               | -1.0                       | 72       | 23    | 29      | 29    | 28                       | 1.08   | -2.16                      | 0.45                  | 0                          | 10                 | 11                 | 12                         | 8                   | w.                            | Weather Bureau.        |
| Charlotte, N. C.....                  | Mecklenburg.....  | 808             | 26                      | 40.8                               | -2.8                       | 71       | 27    | 23      | 29    | 30                       | 2.86   | -1.24                      | 1.04                  | 3.3                        | 12                 | 12                 | 6                          | 13                  | sw.                           | Weather Bureau.        |
| Cheraw (1).....                       | Chesterfield..... | 144             | 16                      | 42.0                               | -2.5                       | 78       | 27    | 22      | 30    | 41                       | 2.60   | 0                          | 0.95                  | 0                          | 10                 | 13                 | 4                          | 14                  | w.                            | W. R. Godfrey.         |
| Cheraw (2).....                       |                   | 144             | 11                      |                                    |                            |          |       |         |       |                          | 2.77   | -0.35                      | 1.02                  | 0                          | 12                 | 15                 | 3                          | 13                  | e.                            | Jno. H. Powe.          |
| Clarks Hill.....                      | Edgefield.....    | 456             | 2                       | 45.9                               |                            | 75       | 27    | 22      | 29*   | 34                       | 3.97   | -1.12                      | 1.12                  | 0                          | 7                  | 12                 | 4                          | 14                  |                               | Wm. S. Middleton.      |
| Clemson College.....                  | Oconee.....       | 850             | 13                      | 40.5                               | -2.0                       | 68       | 8     | 16      | 19    | 39                       | 3.56   | +0.02                      | 1.04                  | 0.5                        | 10                 | 16                 | 1                          | 14                  | e.                            | Jno. N. Hook.          |
| Columbia.....                         | Richland.....     | 351             | 17                      | 45.6                               | -2.3                       | 75       | 27    | 25      | 29    | 29                       | 2.38   | -0.56                      | 0.66                  | 0                          | 11                 | 11                 | 7                          | 13                  | sw.                           | Central Office.        |
| Conway.....                           | Horry.....        | 25              | 13                      | 45.3                               |                            | 75       | 27    | 23      | 30    | 40                       | 2.30   | -0.26                      | 0.80                  | 0                          | 10                 | 21                 | 0                          | 10                  | s.                            | Mr. Q. Quattlebaum.    |
| +Darlington.....                      | Darlington.....   | 175             | 9                       | 44.5                               |                            | 77       | 27    | 19      | 30    | 47                       | 2.47   | -0.40                      | 0.62                  | 0                          | 12                 | 13                 | 11                         | 7                   |                               | Miss Fanny G. McIver   |
| Dillon.....                           | Marion.....       | 100             | 0                       | 46.0                               |                            | 76       | 27    | 21      | 30    | 41                       | 1.52   |                            | 0.79                  | 0                          | 9                  |                    |                            |                     |                               | A. E. Rowell.          |
| Durham.....                           | Abbeville.....    | 740             | 3                       | 45.4                               |                            | 68       | 27    | 23      | 29    | 33                       | 3.88   | -0.07                      | 1.55                  | T                          | 8                  | 13                 | 3                          | 15                  | w.                            | Rev. O. Y. Bonner.     |
| Edisto.....                           | Bamberg.....      | 127             | 11                      |                                    |                            |          |       |         |       |                          | 3.00   | -0.71                      | 0.90                  | 0                          | 7                  | 14                 | 5                          | 12                  | n.                            | Mrs. M. Thompson.      |
| Edinburgh.....                        | Florence.....     | 106             | 12                      |                                    |                            |          |       |         |       |                          | 2.50   |                            | 0.90                  | 0                          | 4                  | 11                 | 1                          | 19                  | w.                            | H. B. McCall.          |
| Enore.....                            | Spartanburg.....  | 987             |                         |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | E. P. Porter.          |
| Florence.....                         | Florence.....     | 136             | 16                      | 43.7                               | +0.1                       | 73       | 27    | 22      | 30    | 36                       | 2.04   | -0.42                      | 0.63                  | 0                          | 11                 | 14                 | 0                          | 17                  | sw.                           | H. K. Gilbert.         |
| Gaffney.....                          | Cherokee.....     | 893             | 8                       | 41.2                               |                            | 68       | 27    | 20      | 29*   | 44                       | 3.61   | +0.05                      | 0.78                  | 7.0                        | 13                 | 16                 | 1                          | 14                  | w.                            | B. F. Camp.            |
| Georgetown.....                       | Georgetown.....   | 12              | 11                      | 48.0                               | -0.7                       | 75       | 27    | 28      | 28    | 38                       |        |                            |                       |                            |                    |                    |                            |                     |                               | Reid Whitford.         |
| Greenville.....                       | Greenville.....   | 989             | 12                      | 39.1                               | -2.4                       | 67       | 27    | 17      | 20*   | 42                       | 4.90   | +1.70                      | 1.15                  | 6.2                        | 13                 | 14                 | 0                          | 17                  | ne.                           | Mrs. S. A. Crittenden. |
| +Greenwood.....                       | Greenwood.....    | 671             | 16                      | 42.7                               | 0                          | 70       | 27    | 22      | 30    | 32                       | 3.72   | +1.48                      | 0.95                  | 0                          | 8                  | 16                 | 1                          | 14                  | w.                            | M. M. Calhoun.         |
| Heath Springs.....                    | Laurens.....      |                 | 3                       | 40.6                               |                            | 68       | 1     | 18      | 16    | 32                       | 3.49   |                            | 0.88                  | 1.0                        | 9                  | 14                 | 4                          | 13                  | w.                            | J. A. Weaner.          |
| Kingstree (1).....                    | Williamsburg..... | 54              | 16                      |                                    |                            |          |       |         |       |                          | 1.70   | -1.61                      | 0.50                  | 0                          | 7                  | 16                 | 3                          | 10                  | nw.                           | J. A. Scott.           |
| Kingstree (2).....                    |                   | 54              | 10                      |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | A. O. Matthews.        |
| Liberty.....                          | Pickens.....      | 900             | 10                      | 42.5                               | -0.1                       | 66       | 8     | 17      | 29    | 35                       | 3.77   | -0.36                      | 1.32                  | 2.5                        | 7                  | 12                 | 6                          | 13                  | sw.                           | Jno. T. Boggs.         |
| Little Mountain.....                  | Newberry.....     | 711             | 11                      | 44.8                               | -2.1                       | 67       | 24*   | 23      | 29    | 34                       | 3.52   | -0.54                      | 0.79                  | 0.2                        | 11                 | 12                 | 7                          | 12                  | w.                            | John M. Sease, M. D.   |
| Lugoff.....                           | Kershaw.....      | 168             | 3                       | 43.0                               |                            | 76       | 27    | 19      | 30    | 40                       | 4.30   |                            | 0.92                  |                            | 9                  | 12                 | 2                          | 17                  | n.                            | W. J. Burdell, M. D.   |
| Newberry.....                         | Newberry.....     | 502             | 0                       | 43.4                               | -2.8                       | 75       | 27    | 21      | 30    | 38                       | 3.73   | +0.49                      | 0.94                  | 2.0                        | 13                 | 13                 | 5                          | 13                  | w.                            | W. G. Peterson.        |
| Palmer.....                           | Anderson.....     | 873             |                         |                                    |                            |          |       |         |       |                          | 2.62   |                            | 0.86                  | 2.5                        | 7                  | 13                 | 1                          | 17                  | w.                            | John M. Ward.          |
| +Pinopolis.....                       | Berkeley.....     | 54              | 11                      | 47.2                               | -0.6                       | 72       | 28    | 26      | 30    |                          | 1.59   | -1.65                      | 0.48                  | 0                          | 6                  | 11                 | 8                          | 12                  | ne.                           | E. P. Ravenel.         |
| St. Georges.....                      | Dorchester.....   | 109             | 16                      | 45.6                               | -1.8                       | 75       | 27    | 21      | 30    | 37                       | 1.60   | -2.46                      | 0.40                  | 0                          | 4                  |                    |                            |                     |                               | W. B. Raynor.          |
| St. Matthews.....                     | Orangeburg.....   | 269             | 16                      | 45.2                               | -1.9                       | 75       | 27    | 27      | 31    | 36                       | 2.06   | -0.87                      | 0.57                  | 0                          | 10                 | 16                 | 0                          | 15                  |                               | J. S. Wannamaker.      |
| St. Stephens.....                     | Berkeley.....     | 73              | 12                      |                                    |                            |          |       |         |       |                          | 1.39   | -1.92                      | 0.40                  | 0                          | 7                  | 16                 | 1                          | 14                  | n.                            | C. T. Shuler.          |
| Saluda.....                           | Saluda.....       | 536             | 3                       | 44.3                               |                            | 75       | 26    | 20      | 28*   | 36                       | 3.64   |                            | 0.89                  | 0                          | 12                 | 17                 | 0                          | 14                  | sw.                           | Alvin Etheridge.       |
| Santuc.....                           | Union.....        | 512             | 11                      | 41.8                               | -1.7                       | 66       | 23*   | 18      | 20    | 39                       | 3.96   | +0.77                      | 1.50                  | 2.5                        | 9                  | 10                 | 3                          | 13                  | w.                            | E. W. Jeter.           |
| Savannah, Ga.....                     | Chatham.....      | 71              | 35                      | 52.0                               | -0.4                       | 72       | 27    | 31      | 29    | 27                       | 0.93   | -2.28                      | 0.32                  | 0                          | 9                  | 9                  | 14                         | 8                   | w.                            | Weather Bureau.        |
| Seivern.....                          | Aiken.....        | 482             | 3                       | 45.0                               | -2.3                       | 78       | 24    | 19      | 29    | 44                       | 3.18   | -0.01                      | 0.90                  | 0                          | 5                  | 15                 | 0                          | 16                  | w.                            | Geo. C. Gunter.        |
| Smiths Mills.....                     | Williamsburg..... | 62              | 9                       |                                    |                            |          |       |         |       |                          | 2.00   | -2.19                      | 0.60                  | 0                          | 8                  | 16                 | 3                          | 12                  | ne.                           | H. van Keuren.         |
| Society Hill.....                     | Darlington.....   | 192             | 13                      | 47.8                               | +2.1                       | 74       | 26    | 24      | 29    | 38                       | 2.49   | -0.29                      | 0.88                  | 0                          | 7                  | 12                 | 4                          | 15                  |                               | J. J. Lucas.           |
| Spartanburg.....                      | Spartanburg.....  | 875             | 13                      | 40.4                               | -3.2                       | 67       | 27    | 21      | 20*   | 43                       | 4.10   | +1.52                      | 1.52                  | 3.8                        | 11                 | 14                 | 0                          | 17                  |                               | F. P. Robinson.        |
| Stateburg.....                        | Sumter.....       | 500             | 27                      | 46.8                               | -0.8                       | 77       | 27    | 25      | 29    | 34                       | 2.32   | -0.66                      | 0.70                  | 0                          | 7                  | 12                 | 4                          | 15                  | sw.                           | W. W. Anderson, M. D.  |
| Summerville.....                      | Dorchester.....   | 75              | 7                       | 47.8                               | -1.0                       | 72       | 24*   | 22      | 29    | 38                       | 1.64   | -2.38                      | 0.37                  | 0                          | 12                 | 10                 | 12                         | 9                   | sw.                           | Miss E. H. Gadsden.    |
| Sumter.....                           | Sumter.....       | 169             | 3                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | Wm. D. Shaw.           |
| +Trenton.....                         | Edgefield.....    | 620             | 11                      | 46.1                               | -2.1                       | 74       | 27    | 23      | 29    | 28                       | 4.26   | +0.93                      | 1.05                  | T                          | 10                 | 15                 | 4                          | 12                  | w.                            | C. A. Long.            |
| Triana.....                           | Berkeley.....     | 85              | 18                      | 46.0                               | -2.6                       | 72       | 23*   | 18      | 30    | 37                       | 1.58   | -1.45                      |                       | 0                          | 3                  | 17                 | 6                          | 8                   | sw.                           | Etsell Gaillard.       |
| Walhalla.....                         | Oconee.....       | 1061            | 13                      | 41.7                               | -2.6                       | 74       | 8     | 16      | 29    | 48                       | 4.47   | +1.49                      | 2.00                  | T                          | 7                  | 12                 | 4                          | 15                  |                               | J. D. Isbell.          |
| Walterboro.....                       | Colleton.....     |                 | 1                       | 51.5                               |                            | 77       | 26*   | 21      | 30    | 44                       | 1.44   |                            | 0.41                  | 0                          | 11                 | 13                 | 10                         | 8                   | nw.                           | J. A. Westerberg.      |
| Wilmington, N. C.....                 | New Hanover.....  | 52              | 35                      | 45.7                               | -2.6                       | 71       | 27    | 24      | 11    | 33                       | 1.74   | -1.24                      | 0.69                  | 0                          | 10                 | 14                 | 7                          | 10                  | ne.                           | Weather Bureau.        |
| Winnboro.....                         | Fairfield.....    | 545             | 15                      | 42.8                               | -3.9                       | 75       | 27    | 22      | 29    | 32                       | 3.70   | +0.90                      | 1.10                  |                            | 6                  | 12                 | 11                         | 8                   | w.                            | John W. Seigler.       |
| Winthrop College.....                 | York.....         | 690             | 5                       | 42.0                               | -4.4                       | 72       | 27    | 20      | 29    | 34                       | 3.23   | +0.39                      | 1.25                  | 1.0                        | 10                 | 11                 | 8                          | 12                  | ne.                           | Geo. B. Green.         |
| Yemassee.....                         | Beaufort.....     | 23              | 9                       | 48.4                               | +0.3                       | 73       | 27    | 21      | 30    | 48                       | 1.28   | -2.32                      | 0.35                  | 0                          | 11                 | 16                 | 1                          | 14                  |                               | J. G. Hutson.          |
| Yorkville.....                        | York.....         | 680             | 16                      | 42.6                               | -3.5                       | 73       | 27    | 23      | 20*   | 31                       | 3.30   | +0.32                      | 1.27                  | 4.0                        | 7                  | 10                 | 7                          | 14                  | w.                            | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |                   |                 |                         | 45.5                               | -1.5                       | 78       | 27*   | 16      | 19*   | 48                       | 2.79   | -0.45                      | 2.00                  | 0.6                        | 9                  | 14                 | 5                          | 12                  | w.                            |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.  
A Temperature apparently too high. B Temperature apparently too low. C Precipitation questionable and omitted.



STATIONS.

\* Probably erroneous, not used in means and summary.

(b) separation at 1.11, 1.11, and 2.2 min.







## DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1904.

| STATIONS.         | Day of Month. |      |      |      |      |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     | Total. |     |     |
|-------------------|---------------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|------|-----|-----|--------|-----|-----|
|                   | 1             | 2    | 3    | 4    | 5    | 6    | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16   | 17  | 18  | 19  | 20  | 21 | 22 | 23  | 24  | 25  | 26  | 27  | 28  | 29   | 30  | 31  |        |     |     |
| Aiken             |               | 1.05 | .05  |      | .50  |      |     |     |     | .25 |     |     |     |     | .25 |      | .50 |     |     |     |    |    |     |     | .10 | T.  | .55 |     |      |     |     |        | 3.2 |     |
| Allendale         |               |      | 1.15 |      | .20  |      |     |     |     |     |     | T.  |     | T.  |     | .25  |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        | 1.6 |     |
| Anderson          |               | .90  |      |      | 1.40 |      |     |     | T.  | .25 |     |     |     |     |     | .34  | .26 |     |     |     |    |    |     | .33 |     | .10 | .80 |     |      |     |     |        | 4.3 |     |
| Augusta, Ga.      |               | 1.10 | .01  | T.   | .46  | T.   |     |     |     | .18 |     | .01 |     |     | .01 | .18  |     | .20 |     | T.  |    |    |     | .01 | .01 |     | .28 | .03 |      |     |     |        | 2.2 |     |
| Barksdale         |               |      |      |      |      |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        |     |     |
| Batesburg         | .11           |      | .98  |      | .27  | .21  |     |     |     | T.  |     |     |     |     |     | .24  | .09 |     | .03 |     | T. |    |     |     |     | T.  | .15 |     | 1.21 |     |     |        | 2.2 |     |
| Beaufort          |               | .10  | T.   |      | .77  | .03  |     |     |     | .15 |     | .08 |     |     | T.  | .09  |     | .03 |     | .01 |    |    |     |     | .01 | T.  | .03 | .26 |      |     |     |        | 1.5 |     |
| Bennettsville     |               |      |      |      |      |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        |     |     |
| Blackville        |               |      | .73  |      | .13  | .19  |     |     |     | .18 |     | .01 |     |     |     | .20  | .01 | .03 | .06 |     |    |    |     |     |     |     |     |     | .78  |     |     |        | 2.3 |     |
| Bowman            |               | 1.05 | T.   |      | .40  |      |     |     | .18 |     |     |     |     |     |     | .20  |     | .06 |     | T.  |    |    |     |     |     | .04 | T.  | .14 |      |     |     |        | 2.0 |     |
| Calhoun Falls     |               | .20  | .48  | .11  | .56  | .18  |     |     |     |     |     |     |     |     |     |      | .22 |     |     |     |    |    |     |     |     |     |     | .17 | .62  |     |     |        | 2.5 |     |
| Camden            |               |      | .65  |      | .22  | .25  |     |     |     | .10 |     |     |     |     |     | 1.00 |     |     |     |     |    |    |     |     |     |     |     |     | .35  |     |     |        | 2.5 |     |
| Charleston        |               | .23  | T.   | T.   | .45  | T.   |     |     |     | .08 |     | .07 |     |     | T.  | .02  | T.  | .06 |     | T.  |    |    |     |     |     | .04 | .01 | .07 | .05  |     |     |        | 1.0 |     |
| Charlotte, N. C   |               | .83  | .01  | T.   | 1.04 |      |     |     | T.  | .07 |     | .03 |     |     | T.  | .12  | .04 | .28 |     |     |    |    |     | .06 | .02 | .20 | .16 |     |      |     |     |        | 2.8 |     |
| Cheraw(1)         |               | T.   | .68  |      | .18  | .29  |     |     |     | .16 |     | .17 |     |     |     | .95  | .07 |     | .01 |     |    |    |     |     | .01 |     | .15 | .10 |      |     |     |        | 2.6 |     |
| Cheraw(2)         |               | T.   | .02  | .64  |      | .18  | .35 |     |     | .06 |     | .15 |     |     |     | 1.02 | .03 |     | .08 |     | T. |    |     |     |     | .05 |     | .06 | .13  |     |     |        | 2.7 |     |
| Clark's Hill      |               |      | 1.12 |      |      | .65  |     |     |     | .22 |     | .03 |     |     |     | .60  |     | .56 |     | T.  |    |    |     |     |     |     |     |     |      |     |     |        | 3.0 |     |
| Clemson College   |               | .40  | .35  |      | 1.04 |      |     | .24 |     | .03 |     | .09 |     |     |     | .25  |     |     |     |     |    |    |     |     | .30 | .10 |     | .79 |      |     |     |        | 3.5 |     |
| Columbia          |               | .48  | .02  | T.   | .35  |      |     |     |     | .16 |     | .02 |     | .04 | .62 | .01  | .15 |     |     |     |    |    |     |     |     |     | .46 | .07 |      |     |     |        | 2.3 |     |
| Conway            |               |      | .80  | T.   | .30  | .15  |     |     |     | .25 | .10 | .15 |     |     | T.  | .15  |     | .20 |     |     |    |    |     |     |     |     | .10 | .10 |      |     |     |        | 2.3 |     |
| Darlington        |               | .53  | .23  | .01  | .40  | .01  |     |     |     | .10 |     | .17 |     | .09 | .62 |      | .16 |     |     |     |    |    |     |     |     |     | .11 | .10 |      |     |     |        | 2.4 |     |
| Dillon            |               |      |      |      | .34  |      |     |     |     | .05 |     |     |     | .05 | .79 |      | .17 |     | T.  | .01 |    |    |     |     |     |     | .03 | .07 | .01  |     |     |        | 1.5 |     |
| Due West          |               | .99  |      |      | 1.55 |      |     |     |     | .30 |     | T.  |     |     | .06 | T.   |     |     |     |     |    |    |     |     |     |     |     | .15 |      |     |     |        | 3.8 |     |
| Edisto            |               |      | 1.00 | .20  |      | .30  |     |     |     | .20 |     |     |     |     | .30 |      |     | .50 |     |     |    |    |     |     | .34 |     | .08 | .41 | .15  |     |     |        | 3.0 |     |
| Ellingham         |               |      | .90  |      | .20  | .70  |     |     |     |     |     | T.  |     |     | .70 | T.   | T.  |     |     |     |    |    |     |     |     |     |     | .50 |      |     |     |        | 2.5 |     |
| Enore             |               |      |      |      |      |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        |     |     |
| Florence          | T.            |      | .63  |      | .16  | .22  |     |     |     | .05 |     | .23 |     |     | .30 | .10  | .08 | .05 |     |     |    |    |     |     |     |     | .10 | .12 |      |     |     |        | 2.0 |     |
| Gaffney           | .10           | .75  | .78  | .62  |      |      |     |     | .06 |     | .08 |     | .20 | .10 |     | .20  |     |     |     |     |    |    |     |     | .17 | .05 | .10 | .50 |      |     |     |        | 3.6 |     |
| Georgetown        |               |      |      |      |      |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        |     |     |
| Greenville        |               | .28  | .38  | .05  | .82  | 1.15 | T.  |     |     | .18 |     | T.  |     |     | .12 | .10  | .40 |     |     |     |    |    |     |     |     | .70 | .12 | .06 | .54  |     |     |        | 4.9 |     |
| Greenwood         |               | .15  | .95  |      | .58  | .88  |     |     |     | .28 |     |     |     |     |     |      | .58 |     |     |     |    |    |     |     |     |     |     | .95 |      |     |     |        | 4.7 |     |
| Heath Springs     |               | .80  |      |      | .70  | .01  |     |     |     |     |     |     |     | .42 | .31 |      |     |     |     |     |    |    |     |     | .35 |     |     |     | .88  |     |     |        | 3.4 |     |
| Kingstree(1)      |               |      |      |      |      |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        |     |     |
| Kingstree(2)      |               |      | .50  |      | .27  | .12  |     |     |     | .17 |     | .20 |     |     |     | .10  | .05 | .05 |     |     |    |    |     |     |     |     | .15 |     |      |     |     |        | 1.7 |     |
| Liberty           |               | 1.05 |      |      | 1.10 |      |     |     | T.  |     |     | T.  |     |     |     | .10  | .05 | .05 |     |     |    |    |     |     | .10 |     | T.  | .12 |      |     |     |        | 3.7 |     |
| Little Mountain   |               | .73  | .03  |      | .79  |      |     |     |     | .26 |     | .06 |     | .12 | .48 |      | .04 |     |     |     |    |    |     |     | .20 |     | .06 | .75 |      |     |     |        | 3.5 |     |
| Lugoff            |               | .70  | .15  |      | .50  |      |     |     |     | .10 |     | .08 |     |     | .80 | T.   | .92 |     | T.  |     |    |    |     |     |     |     |     |     |      |     |     |        | 4.3 |     |
| Newberry          |               | .94  | .01  | .39  | .40  |      |     |     | .23 |     | .02 |     |     | .77 | .02 | .15  | .19 |     |     |     |    |    |     |     | .10 | T.  | .30 |     | .45  |     |     |        | 3.7 |     |
| Pelzer            | .01           | .20  |      |      | .50  |      |     |     |     |     |     |     |     | .10 | .50 |      |     |     |     |     |    |    |     |     |     |     |     | .80 |      |     |     |        | 2.6 |     |
| Pinopolis         |               | .47  |      |      | .48  |      |     |     |     | .04 |     |     |     |     | .04 | .17  |     |     |     |     |    |    |     |     |     |     |     | .39 |      |     |     |        | 1.5 |     |
| St. Georges       |               | .35  |      |      | .40  |      |     |     |     | .15 |     |     |     |     | .25 | .15  | .10 | .10 |     |     |    |    |     |     |     |     | .10 |     |      |     |     |        | 1.6 |     |
| St. Matthews      |               |      | .57  | .15  | .15  | .20  |     |     |     |     |     |     |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     | .10 | .29  |     |     |        | 2.0 |     |
| St. Stephens      |               |      | .40  |      | .20  | .17  |     |     |     | .14 |     |     |     |     |     |      |     | .18 |     |     |    |    |     |     |     |     |     | .15 | .15  |     |     |        | 1.3 |     |
| Saluda            |               | .89  | .08  | .02  | .87  | T.   |     |     |     | .22 |     | .08 |     |     | T.  | .32  | .33 |     |     |     |    |    | .02 | .11 |     | .55 | .15 |     |      |     |     |        | 3.6 |     |
| Santuc            | 1.50          |      |      |      | 1.10 |      |     |     |     | .14 | .03 |     |     |     | .14 |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        | 3.9 |     |
| Savannah, Ga.     |               | .08  | T.   | .01  | .32  | T.   | T.  |     |     | .05 |     | .07 |     | .03 | .05 |      | T.  | .30 |     | T.  |    |    |     |     | .34 |     | T.  | T.  | .15  | .17 |     |        | 0.9 |     |
| Seivern           | .05           |      | .90  |      | T.   | .50  |     |     |     | .22 |     | .08 |     |     | .67 | T.   |     | T.  | .12 |     | T. |    |     |     |     | T.  | T.  | .10 | .54  |     |     |        | 3.1 |     |
| Smiths Mills      | T.            |      | .60  |      | .18  | .40  | .30 |     |     | .30 |     | .40 |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        | 2.0 |     |
| Society Hill      |               | .50  |      |      | .18  | .28  |     |     |     |     | .23 |     |     | .88 | .14 |      |     |     |     |     |    |    |     |     |     |     |     | .12 | .16  |     |     |        | 2.4 |     |
| Spartanburg       |               | .36  | .43  | .02  | 1.52 |      |     |     |     | .10 | T.  |     |     | .08 |     | .50  |     |     |     |     |    |    |     |     |     |     |     | .13 | .12  | .07 | .77 |        |     | 4.1 |
| Stateburg         |               | .52  |      |      | .33  |      |     |     |     | .13 | T.  | .09 |     |     |     | .15  |     |     |     |     |    |    |     |     |     |     |     | .40 |      |     |     |        | 2.3 |     |
| Summerville       |               | .13  |      | .37  | .12  |      |     |     | .16 | T.  | .06 |     |     | .03 | .03 |      | .20 |     | T.  |     |    |    |     |     |     |     | .10 | .10 | .33  |     |     |        | 1.6 |     |
| Sumter            | .01           |      |      |      |      |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        |     |     |
| Trenton           |               | 1.05 | .06  | .59  |      |      |     |     | .30 |     | .04 |     | T.  | .79 |     | .33  |     |     |     |     |    |    |     |     |     |     |     | .07 | .89  | .14 |     |        | 4.2 |     |
| Trial             |               |      |      |      | .88  |      |     |     |     |     |     |     |     |     |     | .40  |     |     |     |     |    |    |     |     |     |     |     |     | .30  |     |     |        | 1.5 |     |
| Walhalla          | .28           |      | T.   | 2.00 | T.   |      |     |     |     |     | T.  |     |     |     | .31 |      | .31 |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        | 4.4 |     |
| Walterboro        |               | .09  |      |      | .41  | .01  |     |     |     | .17 |     |     |     | T.  | .03 |      | .22 |     | T.  |     |    |    |     |     |     |     |     |     |      |     |     |        | 4.4 |     |
| Wilmington, N. C. |               | .22  | .16  |      | .69  | T.   |     |     |     | .02 |     | .35 |     | T.  | .02 | .05  | T.  | .17 |     |     |    |    |     |     |     |     |     |     |      |     |     |        | 1.4 |     |
| Winnboro          |               | .50  | .30  | .10  | .80  |      |     |     |     | T.  |     | T.  | T.  | T.  | .90 |      |     |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        | 1.7 |     |
| Winthrop College  |               | 1.25 | .10  | T.   | 1.10 |      |     |     |     | .15 |     | .05 |     | T.  | T.  |      | .10 |     |     |     |    |    |     |     |     |     |     |     |      |     |     |        | 3.7 |     |
| Yemassee          |               |      | .11  | .02  | .30  | .14  |     |     |     | .11 |     | .05 |     |     | .05 | .03  |     | .06 |     |     |    |    |     |     | .03 | T.  | .10 | .30 | .05  |     |     |        | 3.2 |     |
| Yorkville         |               | 1.12 | T.   | T.   | 1.27 |      |     |     |     | T.  |     | T.  |     |     |     | .21  | T.  | .30 |     |     |    |    |     |     | .13 | .02 | T.  | .25 |      |     |     |        | 3.3 |     |

T indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY, 1905.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,  
SECTION DIRECTOR.

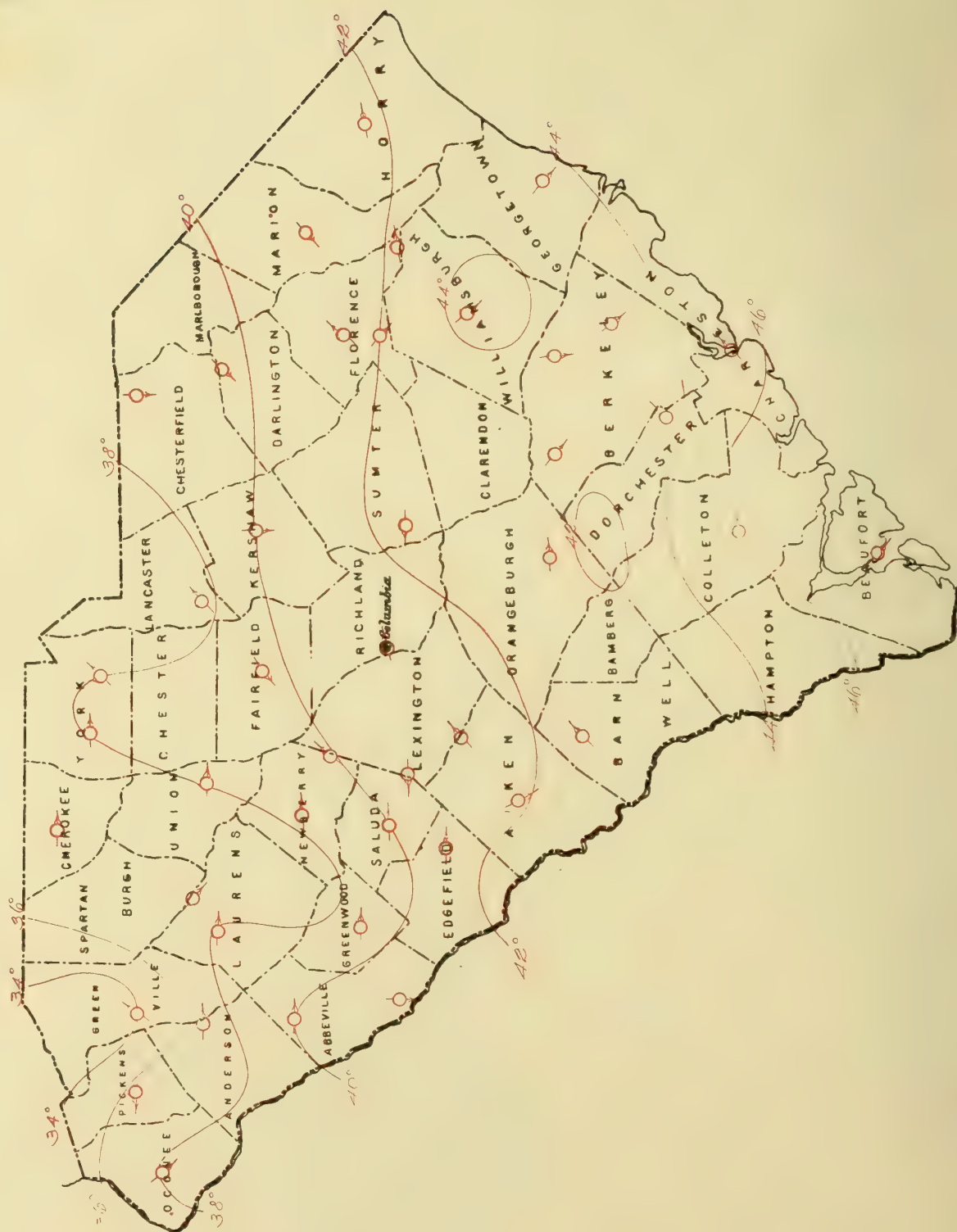


RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

FEBRUARY 25, 1905.



(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., JANUARY, 1905. No. 1.

## PROGRESS OF FARM WORK.

The weather was quite favorable for farm work usual to the season, during the greater portion of January, over the eastern and central counties, but the ground was either too wet, or was frozen over the extreme western ones making farm work impracticable.

The month was slightly cooler than usual up to the 25th, and was very cold, with a cold wave, from the 25th to its close. The cold wave caused below freezing temperatures to the coast and lower temperatures in the interior than any recorded since February 1899. The freezing weather was very damaging to truck along the coast, killing all but the hardiest varieties, such as lettuce.

The precipitation was copious, and about normal, over the northwestern counties, and was deficient in all other portions, amounting to less than an inch in some of the southern counties. It was practically all in the form of rain.

Wheat was not damaged by the cold wave, but oats were seriously injured in a number of localities. It is not thought that fruit trees were affected as the previous low temperature had prevented budding, and it was not cold enough to injure the trees themselves.

Considerable plowing was accomplished in the eastern and central counties, and some spring oats were sown, but scarcely any work of this kind was done in the western counties.

While country roads were not in extremely bad condition generally, there was a much smaller quantity of commercial fertilizer hauled than is usual to this month. Some fields were plowed and bedded for corn and cotton, although this work was practicable only in a few localities.

Barometer and Wind Table for January, 1905.

| STATIONS.            | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                      | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                      |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....     | 30.22      | 30.60    | 9     | 29.70   | 3     | 4,917           | 6.6             | 37                | W.         | 3     |
| Charleston.....      | 30.20      | 30.59    | 9     | 29.61   | 3     | 7,898           | 10.6            | 36                | N.         | 14    |
| Charlotte, N. C..... | 30.20      | 30.61    | 9     | 29.53   | 3     | 5,119           | 6.9             | 25                | NW.        | 25    |
| Columbia.....        | 30.19      | 30.60    | 9     | 29.60   | 3     | 7,607           | 10.2            | 52                | NW.        | 25    |
| Savannah, Ga.....    | 30.22      | 30.58    | 9     | 29.69   | 3     | 5,716           | 7.7             | 35                | NW.        | 3     |
| Wilmington, N. C.... | 30.17      | 30.62    | 9     | 29.42   | 3     | 6,231           | 8.4             | 34                | NW.        | 3     |
| Averages.....        | 30.20      | 30.62    | 9     | 29.42   | 3     | 6,248           | 8.4             | 52                | NW.        | 25    |

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for January, 1905, was 41.4°, which is 4.3° below normal. The highest local mean was 47.3° at Beaufort; the lowest was 33.8° at Greenville. The monthly extremes were a maximum of 77° at Walterboro on the 1st and 12th, and a minimum of 8° at Greenville on the 26th, making the State range 69°. The greatest local range was 64° at Conway and Dillon, the least was 39° at Clemson College. The mean of the daily maximum temperatures was 51.5°, and of the daily minimum temperatures was 31.2°, making the average daily range 20.3°.

Ice.—The lake at Conway froze over on the 27th, and remained frozen to the 29th.

Precipitation, in Inches.

The precipitation averaged 2.00 inches, which is 1.57 below normal. The greatest local amount was 4.84 at Walhalla, the least was 0.30 at St. George. The greatest 24-hour fall was 2.65 at Walhalla on the 12th. The average number of days with 0.01 inch, or more, of precipitation was 7, ranging from 1 at Allendale to 10 at Gaffney, Saluda and Spartanburg.

Excessive Precipitation.—Walhalla, 12th, 2.65 in 24 hours. Sleet.—Sleet was noted at Cheraw on the 3rd, Lugoff, 7th; Walhalla, 9th, 24th.

Snow.—Snow fell at Barksdale and Little Mountain on the 3rd; Bowman, Charleston, Columbia, Dillon, Florence, Georgetown, Heath Springs, Lugoff, Seivern, Stateburg and Summerville on the 7th; Batesburg, 6th, 7th; Greenville, Winthrop College, Yorkville on the 30th; Liberty, 7, 9, 10, 29, 30th; Newberry, 3, 6, 7th; Spartanburg, 6, 7, 29th; Walhalla, 7, 28th. The greatest depth was 1.0 inch at Gaffney and Greenville.

Weather.—The average number of clear days was 15, of partly cloudy ones 6, and of cloudy ones 10.

Winds.—The prevailing direction of the wind was from the west at 16 stations, from the southwest and northwest at 11 each; from the north at 5; from the northeast and east at 3 each.

High Winds.—Bowman, 3, 25; Clarks Hill, Liberty, Little Mountain, 25; Columbia, 3, 6, 7, 12, 14, 25, 26; Georgetown, 26; Heath Springs, 24, 25; Lugoff, 4, 25; Saluda, Spartanburg, 24; Society Hill, 3, 6, 7, 24, 25; Summerville, 3, 7, 24, 25; Yorkville, 3, 7.

## MISCELLANEOUS PHENOMENA (with dates).

Thunderstorms.—Stateburg, 6th.

Solar Halos.—Charleston, 1 (?); Santuc, 18; Stateburg, 5, 18, 27th.

Lunar Halos.—Beaufort, 21st; Charleston, 3, (dates not given); Little Mountain, 22nd; Santuc, 19, 21st; Stateburg, 17, 18, 21st.

Fogs, Dense.—Barksdale, 24th; Beaufort, Heath Springs, 13th; Charleston, 13, 19th; Columbia, 13, 19, 20th; Greenville, 10, 19, 24th; Liberty, 13, 19, 20, 21, 24th; Little Mountain, Stateburg, 19, 20th; Newberry, 20, 24th; Saluda, 20th; Santuc, 11, 12, 13, 20; Yemassee, 30th; Yorkville, 6, 12, 13, 19, 20, 24th.

## REMARKS BY OBSERVERS.

AIKEN.—The month was colder than usual, but with less precipitation. BARKSDALE.—Very little farm work was done, as the ground was either too wet or was frozen; oats were killed out to some extent. BATESBURG.—Very little farm work was done, and only small quantities of fertilizers hauled; all grain crops look well, and the acreage is large.



BEAUFORT.—The mean temperature was 3° below normal, and the precipitation 0.91 below. The cold wave on the 26th did much damage to all growing truck; oats were not much damaged. The temperature was lower than in any January since the station was established, in 1889. BOWMAN.—January was remarkably cold, with little or no pleasant weather during the month. About the usual amount of farm work has been done. Small grain crops not promising, as late plantings were injured by cold. HEATH SPRINGS.—Notwithstanding that the temperature was very low this January, very little oats were killed. Some oats were sown to the end of the month. LIBERTY.—No plowing was done during the month, as the ground was unfit the whole time; small grain crops were frozen, but do not appear to be seriously injured. The month as a whole was very cold. LITTLE MOUNTAIN.—Stubble lands were plowed and some oats were sown during the latter part of the month. LUGOFF.—The night of the 25th was the coldest in a number of years. Some oats were injured by freezing. NEWBERRY.—A dry and cold month. Some oats were sown and much plowing was done. SANTUC.—The month was mostly cloudy or partly cloudy, and had rapidly fluctuating temperatures, and was generally unfavorable for crops. There were many fogs, but the precipitation was light. STATEBURG.—The temperature, to the last week, was moderately but steadily cold. The cold wave of the 24th-27th caused the lowest temperature of the season. Some desultory work was done in preparation for the next seasons crops, although but little was accomplished. TRENTON.—The precipitation was 2.16 inches less than the normal for January. Oats were badly damaged by freezing.

#### PHENOLOGICAL OBSERVATIONS.

Observations made at Weather Bureau and voluntary observers' stations show that there is a steady progressive movement, from the south northward in the spring, of mean temperatures above the active growing point. This movement averages about 13 miles a day along the Atlantic coast. Inland the rate of progression is less regular and less subject to latitude; there elevation above sea-level becomes an important factor, while the general topography and the soil are modifying conditions to promote or retard the fitness of the ground for cultivation, and, in warmth, for the favorable germination of seeds. Each locality has its own peculiarities in this respect, but in a general way, and for comparative purposes, phenological observations at any one place will afford data for a large surrounding territory.

For the year 1904 there were only four phenological reports rendered as follows: from Charleston, from Dillon in Marion county, from Lugoff in Kershaw county and from Newberry, Newberry county. The report from Dillon was not as full as the other three. The three full reports were quite full and if they afford insufficient data for generalization, they do show the possible utility of a long series of these reports, and mark an encouraging beginning.

Following the order in which the respective subjects are stated on the Forms, it is found that forest trees are only in a general way an index of the earliness of a season or of the setting in of autumnal decay. The trees selected, by suggestions from interested observers, were the poplar for the early leafing variety, hickory for the medium and blackgum for the late. Other varieties were substituted in the Charleston report making comparison with the earliest section impossible. The first poplar leaves were noted at Lugoff on March 8th, in Newberry on the 13th. In the Dillon report simply March was given without a definite date. Poplar trees were green at all the places by April 4th, showing a more rapid growth in the western part of the State. In Newberry

the leaves began coloring on September 15th, and by the 25th at Lugoff. The trees were bare at practically the same date in October at all points, due, no doubt, to the occurrence of killing frosts.

The hickory trees present the peculiarity of leafing earlier in the western parts than in the eastern, but this may be due to the variety selected for observation, rather than to climatic influence. The same condition was noted with the blackgum tree. It is perhaps worthy of note that the leaves of all three varieties began coloring about the same time. The first leaves of nearly all varieties of cultivated fruit trees began to appear about the same time in all parts of the State, with but a few days advance at Charleston on March 8th, to the 15th at Newberry.

Sporadic blooms of fruit trees were noted very early at Charleston. Peaches were in full bloom by March 10th, strawberries on the 21st and blackberries on the 29th; apples, pears, plums and cherries were between the extremes given. At Lugoff plums were the first to be in full bloom on March 10th, followed by peaches on the 15th, pears on the 26th, strawberries on the 30th, and blackberries on April 20th. At Newberry the progression was plums and peaches March 20th, pears 25th, strawberries April 1st, and blackberries May 1st. The observer at Newberry appends a note stating that usually plums bloom much earlier than peaches, but in 1904 the reverse was the case.

The time that harvesting began shows a wider range than the time of blooming. In Charleston the order was for strawberries March 26th, plums May 22nd, blackberries May 18th, peaches May 25th, apples May 15th, and for pears June 10th. At Lugoff the harvest time began with strawberries on May 1st, pears, plums and blackberries on June 1st, peaches June 19th, and apples June 12th. At Newberry harvest began with strawberries on May 1st, pears June 1st, peaches and plums June 5th, apples and blackberries June 10th. No mention is made in the report whether early, late or medium varieties were selected for observation, nor is it known that the same varieties are cultivated at all places, which may account for the earlier harvest at Newberry than at Lugoff, as the difference in climate of the two places would indicate the reverse.

An interesting feature of these reports is the observation on the yields and quality of these fruits and berries, and may be profitably studied in connection with the weather that prevailed during the first half of the year. Briefly stated, the winter was cold, with about an average amount of precipitation and no severe cold waves; the spring was cool, especially in April, with drought conditions in places from the middle of April to near the end of May. These months practically cover the period from blooming to harvest. In Charleston the yields were "large" except for apples and cherries which were "small". The quality of apples and cherries were "poor" and of all other fruits "good". At Dillon all were "good" except apples which were "poor" in both respects. At Lugoff the yields of apples, peaches and pears were "poor", plums, cherries and strawberries "good", and of blackberries "fine". At this place the quality corresponded with the yields and was stated in the same terms. At Newberry the yields of apples, peaches, pears and strawberries were "good", of plums and cherries "poor". Here the quality differed slightly having been "good" for peaches, pears and strawberries, "fair" for apples and plums, and "poor" for cherries. It would be hasty generalization to say that the weather conditions favorable for large yields are also conducive to a better quality of fruit, but the results of last year's observations foreshadow such a conclusion.

In the February number of the Monthly Report, cereals, grasses, vegetables, etc., will be considered.



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1905.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature in degrees Fahrenheit. |                            |          |       |         | Precipitation in inches. |                       |        |                            |                       | Sky.                        |                    |                    |                            |                     | Prevailing direction of wind. | Observers.             |
|---------------------------------------|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|--------------------------|-----------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|------------------------|
|                                       |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date.                    | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, (unmelted). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. |                               |                        |
| Aiken.                                | Aiken.        | 565             | 4                       | 41.8                               | -4.1                       | 69       | 1     | 10      | 26                       | 33                    | 2.00   | -2.11                      | 0.80                  | 0                           | 5                  | 25                 | 2                          | 4                   | nw.                           | C. F. McGahan, M. D.   |
| Allendale.                            | Barnwell.     | 186             | 17                      |                                    |                            |          |       | 12      | 26                       |                       | 1.00   | -1.94                      | 1.00                  | 0                           | 1                  | 23                 | 0                          | 8                   |                               | C. A. Glover.          |
| Anderson.                             | Anderson.     | 704             | 4                       |                                    |                            |          |       |         |                          |                       |        |                            |                       |                             |                    |                    |                            |                     |                               | R. B. Dean.            |
| Augusta, Ga.                          | Richmond.     | 134             | 34                      | 42.3                               | -4.3                       | 69       | 1     | 14      | 26                       | 35                    | 1.73   | 2.74                       | 0.76                  | T.                          | 10                 | 10                 | 14                         | 7                   | w.                            | Weather Bureau.        |
| Barksdale.                            | Laurens.      | 780             | 4                       | 38.1                               |                            | 62       | 2     | 9       | 26                       | 35                    | 2.12   |                            | 1.05                  | T.                          | 6                  | 15                 | 9                          | 7                   | w.                            | J. T. Garrett.         |
| Batesburg.                            | Lexington.    | 656             | 17                      | 40.1                               | -5.1                       | 66       | 1     | 12      | 26                       | 34                    | 2.02   | -1.92                      | 0.42                  | T.                          | 7                  | 18                 | 3                          | 10                  | e.                            | E. J. Hite.            |
| Beaufort.                             | Beaufort.     | 28              | 19                      | 47.3                               | -3.0                       | 70       | *1    | 17      | 26                       | 34                    | 1.84   | -0.91                      | 0.78                  | 0                           | 7                  | 19                 | 5                          | 7                   | nw.                           | S. M. Benton.          |
| Bennettsville.                        | Marlboro.     |                 | 4                       |                                    |                            |          |       |         |                          |                       |        |                            |                       |                             |                    |                    |                            |                     |                               | Jno. L. McCall.        |
| Blackville.                           | Barnwell.     | 296             | 17                      | 42.2                               | -3.7                       | 71       | 1     | 14      | 26                       | 37                    | 1.19   | -2.31                      | 0.48                  | 0                           | 9                  | 15                 | 13                         | 3                   | sw.                           | G. D. C. Lange.        |
| Bowman.                               | Orangeburg.   | 160             | 4                       | 43.8                               |                            | 74       | 12    | 14      | 26                       | 39                    | 1.50   |                            | 0.41                  | T.                          | 8                  | 16                 | 10                         | 5                   | w.                            | B. O. Evans.           |
| Calhoun Falls.                        | Abbeville.    | 508             | 12                      |                                    |                            |          |       |         |                          |                       | 3.60   | -0.49                      | 0.94                  | 0                           | 7                  | 19                 | 0                          | 12                  | n.                            | P. J. Pfeiffer.        |
| Candon.                               | Kershaw.      | 222             | 39                      |                                    |                            |          |       |         |                          |                       |        |                            |                       |                             |                    |                    |                            |                     |                               | J. C. Whitaker.        |
| Charleston.                           | Charleston.   | 48              | 36                      | 45.8                               | -4.2                       | 69       | 1     | 17      | 26                       | 50                    | 1.32   | -2.69                      | 0.49                  | T.                          | 7                  | 11                 | 14                         | 6                   | sw.                           | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 27                      | 37.0                               | -4.2                       | 65       | 1     | 12      | 26                       | 28                    | 2.11   | -3.03                      | 0.80                  | T.                          | 10                 | 12                 | 4                          | 15                  | sw.                           | Weather Bureau.        |
| Cheraw (1).                           | Chesterfield. | 144             | 17                      | 39.2                               | -3.4                       | 71       | 1     | 13      | 27                       | 44                    | 1.31   | -2.00                      | 0.83                  | 0                           | 5                  | 13                 | 3                          | 15                  | n.                            | W. R. Godfrey.         |
| Cheraw (2).                           |               | 144             | 12                      |                                    |                            |          |       |         |                          |                       | 1.61   | -1.25                      | 0.82                  | T.                          | 8                  | 15                 | 5                          | 10                  | n.                            | Jno. H. Powe.          |
| Clarks Hill.                          | Edgefield.    | 456             | 3                       | 41.8                               |                            | 68       | *1    | 12      | 26                       | 42                    | 1.57   |                            | 0.83                  | 0                           | 4                  | 13                 | 5                          | 13                  |                               | Wm. S. Middleton.      |
| Clemson College.                      | Oconee.       | 850             | 14                      | 35.8                               | -6.1                       | 55       | 11    | 16      | *16                      | 36                    | 3.62   | -1.01                      | 2.00                  | 0                           | 6                  |                    |                            |                     |                               | Jno. N. Hook.          |
| Columbia.                             | Richland.     | 351             | 18                      | 41.8                               | -3.8                       | 67       | 12    | 14      | 26                       | 29                    |        | -2.09                      | 0.68                  | T.                          | 9                  | 10                 | 6                          | 15                  | w.                            | Central Office.        |
| Conway.                               | Horry.        | 25              | 14                      | 41.7                               |                            | 76       | 12    | 12      | 27                       | 40                    | 2.65   | -1.09                      | 1.10                  | 0                           | 7                  | 21                 | 2                          | 8                   | w.                            | McQ. Quattlebaum.      |
| *Dorchester.                          | Darlington.   | 175             | 10                      |                                    |                            |          |       |         |                          |                       |        |                            |                       |                             |                    |                    |                            |                     |                               | Miss Fanny G. McIver   |
| Dillon.                               | Marion.       | 100             | 1                       | 41.6                               |                            | 74       | 12    | 10      | 27                       | 39                    | 1.40   |                            | 0.74                  | T.                          | 5                  |                    |                            |                     | n.                            | A. E. Rowell.          |
| Due West.                             | Abbeville.    | 740             | 4                       | 40.1                               |                            | 63       | 1     | 11      | 26                       | 31                    | 2.36   |                            | 1.21                  | 0                           | 6                  | 14                 | 3                          | 14                  | w.                            | Rev. O. Y. Bonner.     |
| Edisto.                               | Bamberg.      | 127             | 12                      |                                    |                            |          |       |         |                          |                       | 3.90   | +0.67                      | 1.00                  | 0                           | 5                  | 16                 | 3                          | 12                  | w.                            | Mrs. M. Thompson.      |
| Ellingham.                            | Florence.     | 106             | 13                      |                                    |                            |          |       |         |                          |                       | 1.30   | -2.12                      | 0.80                  | 0                           | 4                  | 23                 | 0                          | 8                   | nw.                           | H. B. McCall.          |
| Enore.                                | Spartanburg.  | 987             | 0                       |                                    |                            |          |       |         |                          |                       | 2.22   |                            | 1.06                  | 0                           | 5                  | 15                 | 0                          | 16                  | nw.                           | E. P. Porter.          |
| Florence.                             | Florence.     | 136             | 17                      | 40.4                               | -3.2                       | 75       | 12    | 15      | 27                       | 43                    | 1.71   | -0.83                      | 0.65                  | T.                          | 7                  | 16                 | 2                          | 13                  | sw.                           | H. K. Gilbert.         |
| Gaffney.                              | Cherokee.     | 893             | 9                       | 36.8                               |                            | 70       | 1     | 9       | 26                       | 40                    | 2.88   | -0.60                      | 0.82                  | 1.0                         | 10                 | 17                 | 4                          | 10                  | w.                            | B. F. Camp.            |
| Georgetown.                           | Georgetown.   | 12              | 12                      | 43.8                               | -3.8                       | 74       | 12    | 18      | *25                      | 27                    | 1.80   | -2.07                      | 1.10                  | T.                          | 4                  | 19                 | 1                          | 11                  | nw.                           | Reid Whitford.         |
| Greenville.                           | Greenville.   | 989             | 13                      | 33.8                               | -7.0                       | 65       | 1     | 8       | 26                       | 41                    | 4.09   | -0.58                      | 1.75                  | 1.0                         | 9                  | 16                 | 2                          | 13                  | sw.                           | Mrs. S. A. Crittenden. |
| *Greenwood.                           | Greenwood.    | 671             | 17                      | 37.5                               | -4.1                       | 64       | 1     | 13      | 26                       | 31                    | 1.55   | -2.21                      | 0.62                  | 0                           | 7                  | 17                 | 1                          | 13                  | w.                            | M. M. Calhoun.         |
| Heath Springs.                        | Lancaster.    |                 | 4                       | 36.8                               |                            | 66       | 1     | 11      | 26                       | 36                    | 1.87   |                            | 0.80                  | T.                          | 8                  | 14                 | 6                          | 11                  | sw.                           | J. A. Weaner.          |
| Kingstree (1).                        | Williamsburg. | 54              | 17                      | 45.6                               | -1.0                       | 73       | 11    | 16      | 25                       | 35                    | 1.20   | -2.10                      | 0.60                  | 0                           | 3                  | 22                 | 0                          | 9                   | sw.                           | J. A. Scott.           |
| Kingstree (2).                        |               | 54              | 11                      |                                    |                            |          |       |         |                          |                       | 1.45   | -1.77                      | 0.68                  | 0                           | 4                  | 18                 | 4                          | 8                   | nw.                           | A. O. Matthews.        |
| Liberty.                              | Pickens.      | 900             | 11                      | 37.3                               | -4.6                       | 65       | 1     | 9       | 26                       | 39                    | 4.20   | -1.05                      | 2.20                  | 0.5                         | 9                  | 14                 | 10                         | 7                   | sw.                           | Jno. T. Boggs.         |
| Little Mountain.                      | Newberry.     | 711             | 12                      | 40.4                               | -4.9                       | 68       | 1     | 12      | 26                       | 32                    | 1.48   | -1.95                      | 0.60                  | T.                          | 8                  | 11                 | 10                         | 10                  | sw.                           | John M. Sease, M. D.   |
| Lagoff.                               | Kershaw.      | 168             | 4                       | 40.2                               |                            | 68       | 12    | 10      | 26                       | 37                    | 1.70   |                            | 1.00                  | T.                          | 6                  | 18                 | 4                          | 9                   | n.                            | W. J. Burdell, M. D.   |
| Newberry.                             | Newberry.     | 502             | 1                       | 39.2                               | -3.3                       | 67       | 1     | 12      | 26                       | 36                    | 1.47   | -2.81                      | 0.40                  | T.                          | 8                  | 11                 | 8                          | 12                  | w.                            | W. G. Peterson.        |
| Pelzer.                               | Anderson.     | 873             | 0                       |                                    |                            |          |       |         |                          |                       | 2.67   |                            | 1.48                  | 0.3                         | 6                  | 16                 | 4                          | 11                  | w.                            | John M. Ward.          |
| *Pinopolis.                           | Berkeley.     | 54              | 12                      | 43.0                               | -5.1                       | 72       | 12    | 16      | 26                       |                       | 1.65   | -1.38                      | 0.54                  | 0                           | 7                  | 17                 | 7                          | 7                   | nw.                           | E. P. Ravenel.         |
| St. Georges.                          | Dorchester.   | 109             | 17                      | 41.0                               | -5.4                       | 72       | *12   | 14      | *25                      | 40                    | 0.30   | -2.85                      | 0.15                  | 0                           | 2                  |                    |                            |                     |                               | W. B. Rayson.          |
| St. Matthews.                         | Orangeburg.   | 269             | 17                      | 41.0                               | -5.9                       | 71       | 12    | 13      | 27                       | 35                    | 1.92   |                            | 0.58                  | 0                           | 7                  | 17                 | 0                          | 14                  | n.                            | J. S. Warnamaker.      |
| St. Stephens.                         | Berkeley.     | 73              | 13                      |                                    |                            |          |       |         |                          |                       | 0.70   | -2.63                      | 0.39                  | 0                           | 6                  | 16                 | 2                          | 15                  | w.                            | C. T. Shuler.          |
| Saluda.                               | Saunders.     | 536             | 4                       | 39.0                               |                            | 68       | 1     | 11      | 26                       | 37                    | 1.60   |                            | 0.54                  | 0                           | 10                 | 19                 | 2                          | 10                  | w.                            | Alvin Etheridge.       |
| Sautuc.                               | Union.        | 512             | 12                      | 37.6                               | -4.9                       | 57       | 18    | 10      | 26                       | 33                    | 0.86   | -2.75                      | 0.57                  | 0                           | 5                  | 7                  | 8                          | 8                   | w.                            | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham.      | 71              | 36                      | 47.0                               | -4.0                       | 73       | 12    | 16      | 26                       | 31                    | 2.06   | -1.21                      | 0.76                  | 0                           | 10                 | 13                 | 9                          | 9                   | nw.                           | Weather Bureau.        |
| Selvern.                              | Aiken.        | 482             | 4                       | 40.3                               | -5.1                       | 74       | 2     | 11      | 26                       | 44                    | 1.66   | 2.04                       | 0.66                  | T.                          | 8                  | 17                 | 7                          | 7                   | sw.                           | Geo. C. Gunter.        |
| Smiths Mills.                         | Williamsburg. | 62              | 10                      |                                    |                            |          |       |         |                          |                       | 2.60   | -0.17                      | 1.60                  | 0                           | 3                  | 21                 | 0                          | 10                  | w.                            | H. van Keuren.         |
| Society Hill.                         | Darlington.   | 192             | 14                      | 39.7                               | -3.4                       | 63       | 2     | 15      | *25                      | 33                    | 2.13   | -1.03                      | 0.70                  | 0                           | 8                  | 14                 | 6                          | 11                  | ne.                           | J. J. Lucas.           |
| Spartanburg.                          | Spartanburg.  | 875             | 14                      | 36.7                               | -5.4                       | 70       | 1     | 10      | 25                       | 42                    | 2.78   | -0.31                      | 1.03                  | 0.4                         | 10                 | 12                 | 1                          | 18                  |                               | F. P. Robinson.        |
| Stateburg.                            | Sumter.       | 500             | 28                      | 43.6                               | -1.6                       | 73       | 12    | 14      | 26                       | 36                    | 1.63   | -1.94                      | 0.65                  | T.                          | 8                  | 10                 | 10                         | 11                  | e.                            | W. W. Anderson, M. D.  |
| Summerville.                          | Dorchester.   | 75              | 8                       | 43.8                               | -4.2                       | 74       | 12    | 14      | 26                       | 32                    | 1.55   | -2.23                      | 0.70                  | 0.1                         | 8                  | 13                 | 12                         | 6                   | sw.                           | Miss E. H. Gadsden.    |
| Sumter.                               | Sumter.       | 169             | 4                       |                                    |                            |          |       |         |                          |                       |        |                            |                       |                             |                    |                    |                            |                     |                               | Wm. D. Shaw.           |
| + Trenton.                            | Edgefield.    | 620             | 12                      | 41.4                               | -6.1                       | 65       | 12    | 10      | 26                       | 30                    | 1.75   | -2.16                      | 0.62                  | 0                           | 8                  | 14                 | 12                         | 5                   | w.                            | C. A. Long.            |
| Trials.                               | Berkeley.     | 85              | 19                      | 42.5                               | -4.7                       | 70       | 1     | 10      | 27                       | 36                    | 2.42   | -1.20                      | 0.70                  | 0                           | 7                  | 13                 | 12                         | 6                   | nw.                           | Etsell Gaillard.       |
| Walhalla.                             | Oconee.       | 1061            | 14                      | 39.0                               | -3.1                       | 72       | 1     | 9       | 25                       | 39                    | 4.84   | +0.70                      | 2.65                  | T.                          | 2                  | 16                 | 6                          | 9                   | nw.                           | J. D. Isbell.          |
| Walterboro.                           | Colleton.     |                 | 2                       | 46.4                               |                            | 77       | *1    | 14      | 26                       | 45                    | 1.59   |                            | 0.48                  | 0                           | 9                  | 17                 | 11                         | 3                   | w.                            | J. A. Westenberg.      |
| Wilmington, N. C.                     | New Hanover.  | 52              | 36                      | 42.0                               | -4.9                       | 72       | 12    | 16      | 27                       | 30                    | 1.80   | -2.14                      | 1.03                  | 0                           | 9                  | 15                 | 11                         | 5                   | nw.                           | Weather Bureau.        |
| Winnsboro.                            | Fairfield.    | 545             | 16                      | 39.6                               | -3.6                       | 65       | 1     | 12      | 26                       | 30                    | 2.30   | -0.83                      | 0.80                  | 0                           | 4                  | 16                 | 11                         | 4                   | ne.                           | John W. Seigler.       |
| Winthrop College.                     | York.         | 690             | 6                       | 38.2                               | -5.0                       | 66       | 1     | 10      | 26                       | 38                    | 2.03   | 1.48                       | 0.67                  | T.                          | 9                  | 13                 | 11                         | 7                   | sw.                           | Geo. B. Green.         |
| Yemassee.                             | Beaufort.     | 23              | 10                      | 43.6                               | -4.7                       | 76       | 1     | 14      | 26                       | 41                    | 1.83   | -0.47                      | 0.66                  | 0                           | 8                  | 17                 | 1                          | 13                  | w.                            | J. G. Hutson.          |
| Yorkville.                            | York.         | 680             | 17                      | 38.9                               | -4.2                       | 69       | 1     | 12      | *26                      | 38                    | 2.06   | -1.80                      | 0.84                  | T.                          | 6                  | 9                  | 8                          | 14                  | w.                            | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 41.4                               | -4.3                       | 77       | *1    | 8       | 26                       | 50                    | 2.00   | -1.57                      | 2.20                  | 0.1                         | 7                  | 15                 | 6                          | 10                  | w.                            |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
§ Exposed not standard. \* On other dates also. a indicates 1 day missing. b, 2 days, etc.  
¶ Temperature omitted, apparently too low.

CORRECTIONS.

In the December 1904, Monthly Report, page 5, the mean temperature at Society Hill 47.8° should be 42.8°, and the

reference note "apparently too low" should be omitted; at Allendale the reference note "apparently too high" should be "apparently too low and therefore omitted".

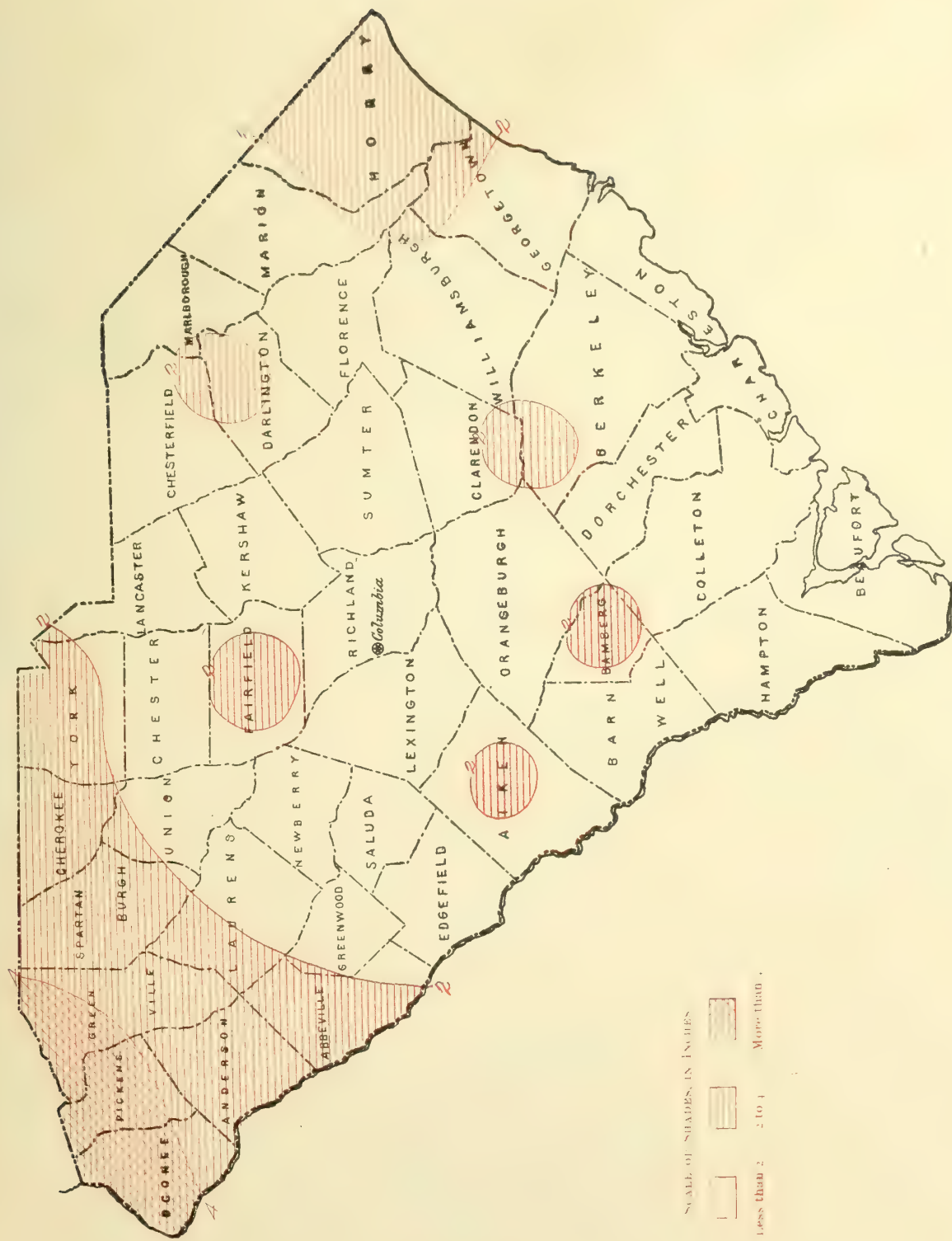


STATIONS.

[illegible]



# TOTAL PRECIPITATION FOR JANUARY, 1905.



SCALE OF SHADES IN INCHES

|             |        |             |
|-------------|--------|-------------|
| Less than 2 | 2 to 4 | More than 4 |
|-------------|--------|-------------|



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JANUARY, 1905.

| STATIONS.         | Day of Month. |     |     |     |     |      |      |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      | Total. |      |
|-------------------|---------------|-----|-----|-----|-----|------|------|------|---|----|-----|------|------|------|-----|-----|----|----|-----|-----|----|----|-----|-----|-----|----|----|----|-----|-----|------|--------|------|
|                   | 1             | 2   | 3   | 4   | 5   | 6    | 7    | 8    | 9 | 10 | 11  | 12   | 13   | 14   | 15  | 16  | 17 | 18 | 19  | 20  | 21 | 22 | 23  | 24  | 25  | 26 | 27 | 28 | 29  | 30  | 31   |        |      |
| Abbeville         |               | .30 |     |     |     |      |      | .80  |   |    |     | .25  | .15  |      |     |     |    |    | .50 |     |    |    |     |     |     |    |    |    |     |     |      | 2.00   |      |
| Anderson          |               |     |     |     |     |      |      |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      | 1.00   |      |
| Anderson          |               |     |     |     |     |      |      |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      |        |      |
| Augusta           |               | .11 | .05 |     |     | .76  |      |      |   |    |     | .18  | .18  | .05  |     |     |    |    | .36 |     |    |    | .01 | .02 |     |    |    |    |     | .01 |      | 1.73   |      |
| Barnwell          |               | .05 |     |     |     | .60  |      |      |   |    |     |      |      |      |     |     |    |    | .30 |     |    |    |     |     |     |    |    |    |     |     |      | 2.12   |      |
| Batesburg         |               |     | .42 |     |     |      | .69  |      |   |    |     | .09  | .37  |      |     |     |    |    | .04 | .32 |    |    |     | .09 |     |    |    |    |     |     |      | 2.02   |      |
| Beaufort          |               |     |     |     |     | .39  |      |      |   |    |     | .05  | .78  | .01  |     |     |    |    | .37 |     |    |    |     | .09 |     |    |    |    |     | .15 |      | 1.84   |      |
| Bennettsville     |               |     |     |     |     |      |      |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      |        |      |
| Blackville        |               |     | .13 |     |     | .02  | .38  |      |   |    |     | .01  | .06  | .48  |     |     |    |    | .06 |     |    |    |     | .04 |     |    |    |    |     | .03 |      | 1.19   |      |
| Bowman            |               | .07 |     |     |     | .20  |      |      |   |    |     | .06  | .09  | .38  |     |     |    |    | .22 | .07 |    |    |     |     |     |    |    |    | .41 |     | 1.50 |        |      |
| Calhoun Falls     |               |     |     |     |     |      | .89  |      |   |    |     | .94  | .84  | .22  | .12 |     |    |    | .12 | .47 |    |    |     |     |     |    |    |    |     |     | 3.60 |        |      |
| Camden            |               |     |     |     |     |      |      |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      |        |      |
| Charleston        |               |     |     |     |     |      |      |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      |        |      |
| Charlotte, N. C.  |               | .04 | .28 |     |     | .27  |      |      |   |    | .05 | .02  | .67  | .05  |     |     |    |    | .41 |     |    |    |     |     |     |    |    |    |     |     |      | 1.32   |      |
| Cheraw(1)         |               |     |     | .02 |     |      |      | .83  |   |    |     |      | .13  | .12  | .20 |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     | .01  | 1.31   |      |
| Cheraw(2)         |               |     | .05 | .05 |     |      |      | .82  |   |    |     |      | .12  | .14  | .18 |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     | .02  | 1.61   |      |
| Clark's Hill      |               |     |     |     |     |      | .83  |      |   |    |     |      | .25  | .03  |     |     |    |    | .46 |     |    |    |     |     |     |    |    |    |     |     |      | 1.57   |      |
| Clemson College   |               | .35 |     |     |     |      | .85  |      |   |    |     | 2.00 | .05  |      |     |     |    |    | .29 |     |    |    |     | .08 |     |    |    |    |     |     |      | 3.62   |      |
| Columbia          |               | .16 | .07 |     |     |      | .68  |      |   |    |     |      | .23  | .22  | .02 |     |    |    | .29 |     |    |    |     | .03 | .01 |    |    |    |     |     |      | 2.65   |      |
| Conway            |               |     |     |     |     |      |      | 1.10 |   |    |     | .20  |      | .90  |     |     |    |    |     | .20 |    |    |     |     | .10 |    |    |    |     | .10 | .05  |        |      |
| Darlington        |               |     |     |     |     |      |      |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      |        |      |
| Dillon            |               |     |     |     |     |      |      |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      |        |      |
| Due West          |               | .15 |     |     |     |      | .53  |      |   |    |     | .21  | .03  |      |     |     |    |    | .33 |     |    |    |     |     |     |    |    |    |     | .11 |      | 2.36   |      |
| Edisto            |               |     |     |     |     |      | .80  |      |   |    |     |      | .60  | 1.00 |     |     |    |    |     | .50 |    |    |     |     |     |    |    |    |     |     |      | 3.90   |      |
| Effingham         |               |     |     | .10 |     |      | .40  |      |   |    |     |      | .10  | .70  |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      | 1.30   |      |
| Enore             |               |     |     |     |     |      | .80  |      |   |    |     |      | .06  | .12  | .06 |     |    |    | .18 |     |    |    |     |     |     |    |    |    |     |     |      | 2.22   |      |
| Florence          |               |     | .09 |     |     |      | .58  |      |   |    |     |      | .07  | .04  | .65 |     |    |    | .15 |     |    |    |     | .13 |     |    |    |    |     |     |      | 1.71   |      |
| Gaffney           |               |     | .10 | .25 | .58 |      |      |      |   |    |     | .08  | .82  | .72  | .02 |     |    |    | .20 |     |    |    |     | .08 |     |    |    |    |     |     | .03  | 2.88   |      |
| Georgetown        |               |     |     |     |     |      | 1.10 |      |   |    |     |      |      | .43  |     |     |    |    | .20 |     |    |    |     | .07 |     |    |    |    |     |     |      | 1.80   |      |
| Greenville        |               |     | .28 |     | .25 | .90  |      |      |   |    |     | .75  | .22  | .05  |     |     |    |    | .27 | .05 |    |    |     | .28 |     |    |    |    |     | .10 |      | 4.09   |      |
| Greenwood         |               |     | .22 |     | .05 | .62  |      |      |   |    |     | .15  | .13  | .18  |     |     |    |    | .20 |     |    |    |     |     |     |    |    |    |     |     |      | 1.55   |      |
| Heath Springs     |               | .08 | .02 |     |     | .80  |      |      |   |    |     |      | .46  | .20  |     |     |    |    | .27 |     |    |    |     | .02 |     |    |    |    |     |     | .02  | 1.87   |      |
| Kingstree(1)      |               |     |     |     |     |      | .50  |      |   |    |     |      |      |      |     |     |    |    | .10 |     |    |    |     |     |     |    |    |    |     |     |      | 1.20   |      |
| Kingstree(2)      |               |     |     |     |     |      | .38  |      |   |    |     |      |      |      |     |     |    |    | .24 |     |    |    |     |     |     |    |    |    |     |     |      | 1.45   |      |
| Liberty           |               | .15 | .02 |     |     | .98  |      |      |   |    |     | .15  | 2.20 | .10  |     |     |    |    | .35 |     |    |    |     | .10 |     |    |    |    |     |     | .05  | 4.20   |      |
| Little Mountain   |               | .05 | .10 |     |     | .28  |      |      |   |    |     |      | .60  | .05  |     |     |    |    | .30 |     |    |    |     | .02 |     |    |    |    |     |     |      | 1.48   |      |
| Lugoff            |               | .20 |     |     |     | 1.00 |      |      |   |    |     | .01  | .19  | .10  |     |     |    |    | .20 |     |    |    |     |     |     |    |    |    |     |     |      | 1.70   |      |
| Newberry          |               | .14 |     |     | .16 | .40  |      |      |   |    |     | .20  | .15  | .07  |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      | 1.47   |      |
| Pelzer            |               |     |     |     | .28 | .58  |      |      |   |    |     | 1.38 | .10  |      |     |     |    |    | .30 |     |    |    |     |     |     |    |    |    |     |     | .03  | 2.67   |      |
| Pinopolis         |               |     |     |     | .18 | .27  |      |      |   |    |     | .19  | .54  |      |     |     |    |    | .32 |     |    |    |     | .07 |     |    |    |    |     |     |      | 1.05   |      |
| St. Georges       |               |     | .15 |     | .25 | .42  |      |      |   |    |     | .22  |      | .58  |     |     |    |    | .20 |     |    |    |     |     |     |    |    |    |     |     | .10  | 0.30   |      |
| St. Matthews      |               |     | .02 | .10 |     | .39  |      |      |   |    |     | .04  | .28  | .09  | .08 | .02 |    |    | .26 |     |    |    |     | .04 |     |    |    |    |     |     | .11  | 0.70   |      |
| St. Stephens      |               |     |     |     |     | .54  |      |      |   |    |     | .04  | .28  | .09  | .08 | .02 |    |    | .26 |     |    |    |     | .05 |     |    |    |    |     |     | .01  | 1.60   |      |
| Saluda            |               | .09 | .14 |     |     |      |      |      |   |    |     | .01  | .57  | .02  |     |     |    |    | .20 |     |    |    |     |     |     |    |    |    |     |     | .06  | 0.86   |      |
| Santuc            |               |     |     |     |     |      |      |      |   |    |     | .05  | .03  | .53  |     |     |    |    | .76 |     |    |    |     | .01 | .17 |    |    |    |     |     | .06  | 2.06   |      |
| Savannah, Ga.     |               | .01 |     |     |     |      |      |      |   |    |     |      | .10  | .14  | .07 |     |    |    | .36 |     |    |    |     | .03 |     |    |    |    |     |     |      | 1.66   |      |
| Severn            |               |     | .11 |     |     | .05  | .66  |      |   |    |     |      |      |      |     |     |    |    | .50 |     |    |    |     |     |     |    |    |    |     |     |      | 2.60   |      |
| Smiths Mills      |               |     |     |     |     | .50  |      |      |   |    |     | .70  | .24  | .18  |     |     |    |    | .18 |     |    |    |     | .04 |     |    |    |    |     |     | .03  | 2.13   |      |
| Society Hill      |               | .11 |     |     |     | .65  |      |      |   |    |     | .05  | 1.03 | .25  | .03 |     |    |    | .15 |     |    |    |     | .18 |     |    |    |    |     |     | .02  | 2.78   |      |
| Spartanburg       |               |     | .14 |     |     | .27  | .66  |      |   |    |     | .06  | .61  |      |     |     |    |    | .17 |     |    |    |     | .05 |     |    |    |    |     |     | .03  | 1.63   |      |
| Stateburg         |               | .03 | .02 | .65 |     | .65  |      |      |   |    |     | .04  | .70  |      |     |     |    |    | .35 |     |    |    |     | .11 |     |    |    |    |     |     | .07  | 1.55   |      |
| Summerville       |               |     |     |     | .01 | .26  | .01  |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      |        |      |
| Sumter            |               |     |     |     |     |      |      |      |   |    |     | .02  | .35  | .06  |     |     |    |    | .44 |     |    |    |     | .04 |     |    |    |    |     |     |      | 1.75   |      |
| Trenton           |               | .05 | .17 |     |     | .62  |      |      |   |    |     | .10  | .70  |      |     |     |    |    | .62 |     |    |    |     | .40 |     |    |    |    |     |     | .12  | 2.42   |      |
| Trial             |               | .08 |     |     |     | .40  |      |      |   |    |     | .08  | .05  | 2.65 |     |     |    |    | .20 |     |    |    |     | .07 |     |    |    |    |     | .36 |      | 4.84   |      |
| Walhalla          |               | .13 | .10 |     |     | 1.20 |      |      |   |    |     |      | .12  | .48  | .04 |     |    |    | .13 | .23 |    |    |     | .11 |     |    |    |    |     |     | .07  | 1.55   |      |
| Walterboro        |               |     | .01 | .01 |     | .40  |      |      |   |    |     |      | .01  | .54  | .02 |     |    |    | .25 |     |    |    |     |     |     |    |    |    |     |     | .02  | 1.80   |      |
| Wilmington, N. C. |               | .01 | .03 |     |     | 1.03 |      |      |   |    |     |      | .60  |      |     |     |    |    | .50 |     |    |    |     |     |     |    |    |    |     |     |      | 2.30   |      |
| Winnabow          |               | .80 |     |     | .40 |      |      |      |   |    |     | .67  | .03  |      |     |     |    |    | .23 |     |    |    |     |     | .15 |    |    |    |     |     |      | T.     | 2.07 |
| Winthrop College  |               | .10 | .15 |     |     | .62  | .05  |      |   |    |     | .08  | .03  | .55  |     |     |    |    | .66 |     |    |    |     | .10 |     |    |    |    |     |     |      | 1.87   |      |
| Yemassee          |               |     | .05 |     |     | .09  | .27  |      |   |    |     |      |      |      |     |     |    |    |     |     |    |    |     |     |     |    |    |    |     |     |      | T.     | 2.04 |
| Yorkville         |               | .05 | .16 |     |     | .68  |      |      |   |    |     |      |      |      |     |     |    |    | .18 |     |    |    |     |     |     |    |    |    |     |     |      |        |      |

T indicates trace, less than .01 inch.



583.06  
7150

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1905.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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WILLIS L. MOORE,  
CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,  
SECTION DIRECTOR.



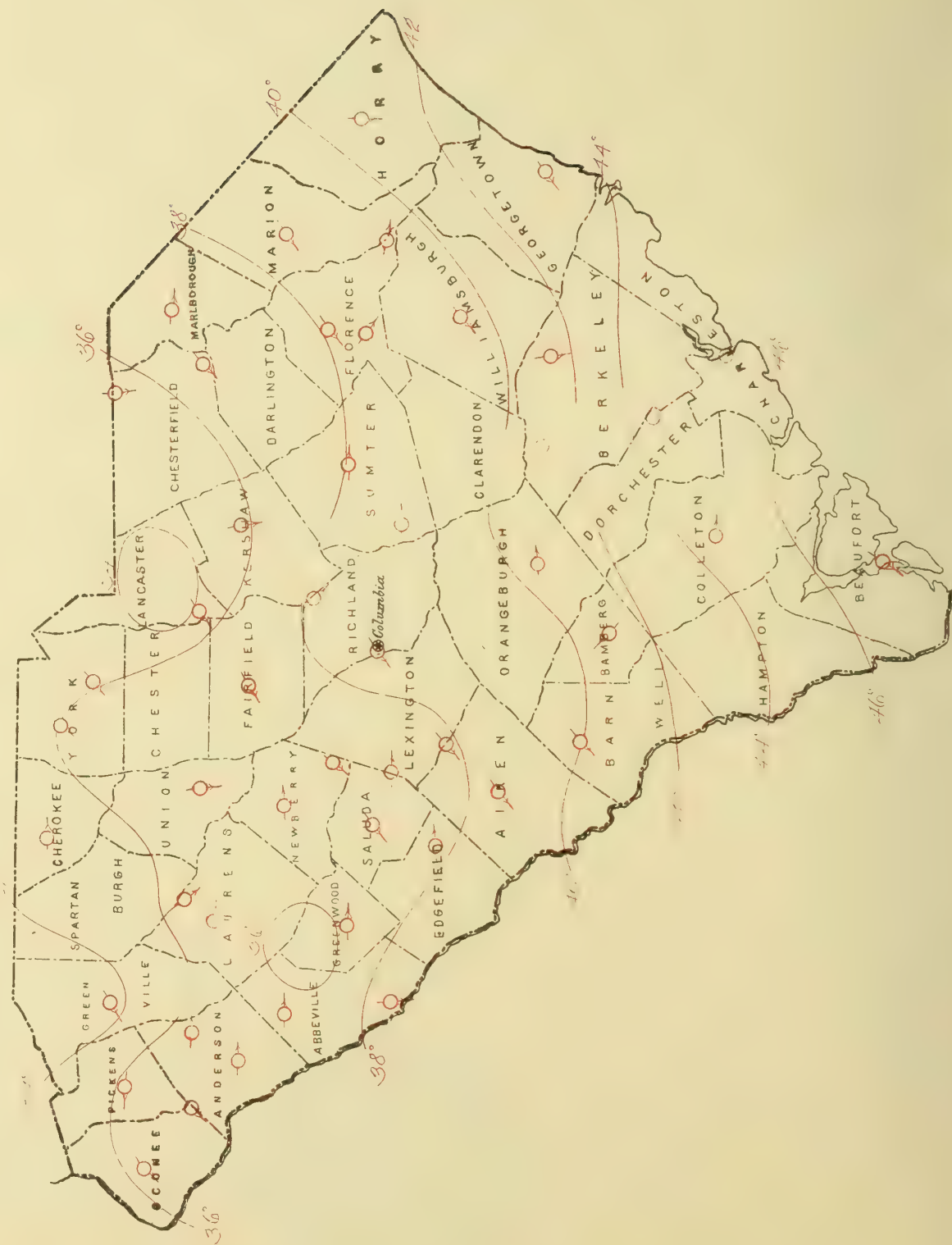
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

MARCH 23, 1905.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR FEBRUARY, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., FEBRUARY, 1905. No. 2.

## PROGRESS OF FARM WORK.

The month was unusually and persistently cold until about the 20th, after which mild, and pleasant, and dry weather prevailed to its close. The mean temperature compares closely with that for the same month in 1895, and these two are the coldest Februaries in the last 18 years.

The precipitation was copious over the whole State, and locally excessive, although the State average was but slightly in excess of the normal. During the first half much of the precipitation was in the form of snow, sleet and rain mixed, the rain generally freezing as it fell, and from this ice coating, melting as it did slowly, the larger portion soaked into the ground thoroughly saturating it. The soil was thus unusually well supplied with moisture.

The persistent cold, and the wet soil, prevented the prosecution of farm work, and little plowing was practicable except during the last week when rapid progress was made over the entire State. The delay in farm work was most serious over the coast trucking regions.

Reports on the damage to small grain, particularly to oats, agree in this, that some damage was done but they vary as to the extent of the injury. It will not be possible to estimate it until after active growth sets in. Some oats were killed outright and the fields have been re-sown. Wheat suffered scarcely any damage. The good effect of the steady cold weather was to retard the swelling of fruit buds, thus saving them from injury by probable frosts in March. The wet soil delayed the preparation of seed beds for tobacco, although some were burnt and seeded.

The month as a whole was unfavorable for the progress of farm work.

Barometer and Wind Table for February, 1905.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 30.22      | 30.67    | 19    | 29.73   | 13    | 4.439           | 6.6             | 28                | w.         | 25    |
| Charleston.....       | 30.19      | 30.59    | 19    | 29.68   | 13    | 7.572           | 11.3            | 35                | e.         | 12    |
| Charlotte, N. C.....  | 30.22      | 30.67    | 19    | 29.66   | 13    | 4.583           | 6.7             | 20                | sw.        | 17    |
| Columbia.....         | 30.19      | 30.63    | 19    | 29.66   | 13    | 6.431           | 9.6             | 31                | w.         | 13    |
| Savannah, Ga.....     | 30.19      | 30.57    | 19    | 29.74   | 13    | 5.653           | 8.4             | 28                | nw.        | 13    |
| Wilmington, N. C..... | 30.17      | 30.64    | 19    | 29.63   | 13    | 5.721           | 8.5             | 29                | sw.        | 13    |
| Averages.....         | 30.20      | 30.67    | 19    | 29.63   | 13    | 5.733           | 8.5             | 35                | e.         | 12    |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for February, 1905, was 38.9, which is 7.7° below normal. The highest local mean was 46.5 at Beaufort; the lowest was 33.5 at Greenville. The monthly extremes were a maximum of 72° at Yemassee on the 20th, and a minimum of 0° at Walhalla on the 14th, making the State range 72°. The greatest local range was 70° at Walhalla, the least was 45° at Bennettsville. The mean of the daily maximum temperatures was 48.0°, and of the daily minimum temperatures was 29.8°, making the average daily range 18.2°.

## Precipitation, in Inches.

The precipitation averaged 5.21 inches, which is 0.87 above normal. The greatest local amount was 8.20 at Blackville, the least was 2.87 at Barksdale. The greatest 24-hour fall was 3.26 at Blackville on the 12th-13th. The average number of days with 0.01 inch, or more, of precipitation was 9, ranging from 4 at Allendale, Clemson College and Trial to 13 at Columbia.

Excessive Precipitation.—Allendale, 12th, 3.20 in 24 hours; Blackville, 12th-13th, 3.26 in 24 hours; Clemson College, 20th, 2.60 in 24 hours; Edisto, 12th, 2.60 in 24 hours; Florence, 12th, 3.00 in 24 hours; Liberty, 20th, 2.50 in 24 hours; St. Matthew, 12th-13th, 3.00 in 24 hours; Sumter, 11th, 3.00 in 24 hours; Trial, 12th-13th, 3.05 in 24 hours.

Snows.—Allendale, Trenton, 4th; Anderson, 2nd; Barksdale, 3, 4, 5, 13, 19; Bennettsville, 3; Cheraw, 4, 14; Columbia, Lugoff, Santuc, 13; Dillon, 3, 4, 5, 13; Gaffney, 3, 5, 7, 12; Liberty, 3, 5, 8, 19; Newberry, 13, 19; Saluda, 3, 4, 5, 6, 8, 9; Seivern, 6, 14, 20; Society Hill, 3, 19; Spartanburg, 3, 13; Walhalla, 5, 19, 20; Winthrop College, 3, 4, 12.

Sleet.—Aiken, Bennettsville, 3, 4, 5, 6; Allendale, Clarks Hill, Stateburg, Trial, Summerville, 3, 4, 5; Anderson, 2; Barksdale, 4, 5, 8, 12, 19; Batesburg, 4, 5, 6, 20; Beaufort, 12; Blackville, 3, 4, 5, 13, 19; Bowman, Walterboro, 4, 5; Cheraw, 5, 6, 8, 18; Columbia, 4, 5, 6; Dillon, Winthrop College, 8; Due West, 3, 6, 8, 9, 19; Florence, Sumter, 3; Gaffney, 3, 5, 7, 12; Heath Springs, 5, 7, 8, 13; Liberty, 5, 8, 12; Little Mountain, 3, 4; Lugoff, 3, 4, 5, 13; Newberry, 3, 4, 5, 7, 8, 19; Saluda, 4, 5, 13, 19; Santuc, 4, 5, 6, 8, 20; Seivern, 3, 4, 5, 6, 14, 20; Society Hill, 5, 7, 8; Spartanburg, 5, 8, 11, 20; Trenton, 4, 5, 8, 9; Walhalla, 5, 9, 11, 12, 20; Yorkville, 5, 6, 8, 9, 12, 20.

Weather.—The average number of clear days was 10, of partly cloudy ones 4, and of cloudy ones 14.

Winds.—The prevailing direction of the wind was from the northeast at 23 stations, from the west at 15, from the northwest at 7; from the north at 6, and from the east and southeast at 1 station each.

## MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Santuc, 24; Stateburg, 7, 24, 27.

Lunar Halos.—Blackville, 9, 10; Charleston, 10; Little Mountain, 16; Santuc, 18.

Thunderstorms.—Bowman, 9, 12, 21; Georgetown, 20; Seivern, 13; Summerville, 12, 20. Summarized, there were 7 storms on 5 dates as follows: one on the 9th, two on the 12th, one on the 13th, two on the 20th, and one on the 21st.

Fogs, Dense.—Barksdale, 20; Beaufort, 11; Blackville, 6, 7, 8; Charleston, 5, 12; Columbia, 8, 9, 10, 12, 13, 21; Liberty, 6, 7, 9, 21; Little Mountain, 9, 21; Newberry, 7; Santuc, 9, 10, 21; Seivern, Walterboro, 23; Spartanburg, 6; Stateburg, 9, 10, 11, 12, 20; Yorkville, 9, 10, 13, 21.



## REMARKS BY OBSERVERS.

AIKEN.—A very cold month, with mean temperature  $10.6^{\circ}$  below the normal, and with 3.14 inches more than the average amount of rain. BARKSDALE.—The month closed warm and pleasant. Some gardening was accomplished. There was some sleet and snow on the ground until the 21st. BATESBURG.—No farm work or gardening was done, the soil having been too wet. Small grain did well. Very little fertilizer was hauled. BEAUFORT.—The mean temperature was  $6.3^{\circ}$  below normal, and the precipitation was 1.33 inches in excess. Cold and wet weather delayed work seriously on the truck farms. Potatoes were planted, green peas came up.—BOWMAN.—The month was remarkable for cold, cloudy and disagreeable weather. Small grain was seriously threatened, but very little was killed. Plum and pear trees began to bud. DILLON.—The month was unusually cold and wet. There were only two fine days, namely the 26th and 28th. The first dove appeared on the 27th. HEATH SPRINGS.—The temperature was below normal until the 18th. Small grains are backward; some oats were killed. But little farm work done. LIBERTY.—The month was unusually cloudy. No plowing and little farm work of any kind done, owing to severe weather. Small grain crop was seriously hurt by the freezing. There was no sign of spring. NEWBERRY.—The sleet that fell on the 3rd remained on the ground until the 25th. No farm work done. The month was cold. SANTUC.—The precipitation from the 4th to the 6th was in the form of rain and sleet, the rain freezing as it fell, causing an extraordinary heavy ice coating that broke many limbs from trees thus damaging orchards. The month closed mild. Bats were seen on the 28th. SEIVERN.—Severe weather during the month damaged small grains badly. SOCIETY HILL.—This was the coldest February since 1895. The oats crop was damaged, but not seriously. Preparations for crops are very backward. STATEBURG.—On account of the steady low temperature and frequent rains, quite heavy on the 12th, 13th and 20th, no farm work, in the preparation of lands, was accomplished until the last few days when mild weather prevailed. SUMMERVILLE.—Sleet gave an ice coating to all outdoor objects from the 3rd to the 6th. TRENTON.—Precipitation 0.32 less than normal, and 2.48 inches less than the average for the first two months. Farm work greatly delayed. Roads in bad condition for hauling commercial fertilizers. Some gardening was done. Fruit buds did not swell. YORKVILLE.—An abnormally cold and stormy month.

ERRATA.—December Monthly Report, page 5: Yemassee mean temperature  $48.1^{\circ}$  should be  $48.0^{\circ}$ ; St. George, mean temperature  $45.6^{\circ}$  should be  $45.4^{\circ}$ ; Dillon, mean temperature  $46.0^{\circ}$  should be  $44.2^{\circ}$ ; Heath Springs, mean temperature  $40.6^{\circ}$  should be  $40.8^{\circ}$ . Page 6: Yemassee, maximum temperature  $52^{\circ}$  should be  $49^{\circ}$  on the 28th, minimum  $58^{\circ}$  should be  $44^{\circ}$ , mean maximum  $58.2^{\circ}$  should be  $57.6^{\circ}$ , mean minimum  $38.6^{\circ}$  should be  $38.5^{\circ}$ ; St. Matthew, mean maximum  $54.1^{\circ}$  should be  $53.8^{\circ}$ ; St. George, maximum on the 5th,  $53^{\circ}$  should be  $65^{\circ}$ , on the 13th  $67^{\circ}$  should be  $57^{\circ}$ , on the 28th  $57^{\circ}$  should be  $42^{\circ}$ . Pages 5 and 8: Gaffney, total precipitation 3.61 should be 3.71.

## PHENOLOGICAL OBSERVATIONS.

The statements under this heading in the January number of the Monthly Report referred to vegetation controlled by nature unassisted, or to the expression of nature as to the earliness or lateness of the season, as manifested by leafing, budding and fruiting of trees and plants that do not require to be planted each year to produce their kind. In the current

article, the division of the phenological reports will deal with crops that are planted annually and whose season is the result of man's experience, and is, therefore, an artificial index, controlled largely by the varying judgment of different individuals, although still more largely by temperature and moisture conditions, and most frequently by the latter only. Temperatures have a limited and well established range each month, while rainfall, as it relates to tillage, ranges from none for long periods causing droughts, to excessive amounts that saturate the soil and render it unfit for cultivation. Seeds planted in a drought may lie dormant a long while before germinating, and if planted when the soil is too wet they are liable to rot before germinating, especially if the temperature is low. Thus temperature and rainfall may make the season early or late, as they are favorable or unfavorable. It is necessary, therefore, to consider carefully these weather elements in judging the advancement of the season and its relation to the crops, as well as the stages of crop development. It is seldom the case that the weather is so unfavorable as to change materially the established seasons for planting, and when once planted the successive stages of germination, growth, cultivation, blooming, fruiting and ripening or harvesting follow in about the same time intervals, from year to year, varying, of course, for different crops. These stages are, to a limited extent, influenced by the weather, but the time element is not so much affected as are the quality and yield.

The few phenological reports for 1904 record most of the principal commercial crops cultivated in South Carolina, and will be considered each by itself, although not in the precise order as stated on the Forms.

Beginning with corn, it is found that planting began near Charleston on March 10th and continued to July 25th; at Lugoff planting began March 30th, and at Newberry on March 20th. The preparation at all these places having been begun in February, as the weather permitted. At Lugoff it was in silk and tassel, generally, on July 1st. The other reports do not state the date of this stage of growth. Harvesting began at Charleston on June 1st, ended October 30th; at Lugoff began August 15th, ended November 1st; at Newberry began September 25th, ended December 1st. At all places both quantity and quality were "large" and "good" respectively.

The preparation of lands for oats began about the middle of September. Sowing ranged through about the same dates, from October 12th to December 15th. Harvesting began at Charleston on May 15th; at Lugoff on June 1st; and at Newberry about June 1st. In Charleston the yields were "small", attributable to the spring drought; at Lugoff "fair", and at Newberry "good". The quality corresponded with the yields at all places.

Cotton lands were first prepared at Lugoff on January 15th and at the other places after February 1st, as the weather and soil conditions permitted. Preparation ended at Charleston on April 15th, at Lugoff on April 20th, and at Newberry on June 1st. In the latter region some stubble lands, after oats, were planted to cotton. Planting began at Charleston on March 30th, ended April 20th; at Lugoff began April 8th, ended April 30th; at Newberry began April 5th, ended June 1st. At Charleston only the sea-island variety was noted, and picking began September 20th; at Lugoff on August 15th, and at Newberry on September 1st. Picking continued at all places into December. The yields were very "large" at Charleston, "medium" at Lugoff, and "large" at Newberry. The quality ranged from "good" to "excellent". At Lugoff blooms were first noted on July 1st; the others do not mention this stage.

[CONTINUED IN MARCH NUMBER].



## CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY, 1905.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature— in degrees Fahrenheit. |                            |          |       |         |       | Precipitation— in inches. |        |                            |                       |                             | Sky.               |                    |                            |                       |                               | Observers.             |
|---------------------------------------|--------------|-----------------|-------------------------|-------------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|-----------------------|-------------------------------|------------------------|
|                                       |              |                 |                         | Mean.                               | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snow fall, unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. | Prevailing direction of wind. |                        |
| Aiken                                 | Aiken        | 565             | 21                      | 38.9                                | -10.6                      | 67       | 28    | 8       | 11    | 38                        | 2.25   | +3.11                      | 2.40                  | 0                           | 9                  | 16                 | 6                          | 6                     | ne.                           | C. F. McGahan, M. D.   |
| Allendale                             | Barnwell     | 186             | 17                      | 37.8                                | -9.5                       | 56       | 28    | 13      | 5     | 18                        | 6.73   | +3.24                      | 3.20                  | T.                          | 4                  | 12                 | 0                          | 16                    | w.                            | C. A. Glover.          |
| Anderson                              | Anderson     | 764             | 4                       |                                     |                            |          |       |         |       |                           | 3.70   | -2.24                      | 1.80                  |                             | 5                  | 13                 | 7                          | 12                    | nw.                           | H. H. Russell.         |
| Augusta, Ga.                          | Richmond     | 134             | 34                      | 40.6                                | -9.8                       | 65       | 28    | 12      | 14    | 40                        | 7.04   | +3.08                      | 2.62                  | 0                           | 10                 | 8                  | 8                          | 12                    | nw.                           | Weather Bureau.        |
| Barksdale                             | Laurens      | 780             | 4                       | 37.3                                |                            | 67       | 26    | 9       | 11    | 35                        | 2.87   |                            | 0.80                  | 4.0                         | 6                  | 13                 | 4                          | 11                    | w.                            | J. T. Garrett.         |
| Batesburg                             | Lexington    | 656             | 17                      | 37.7                                | -7.7                       | 65       | 28    | 10      | 11    | 29                        | 4.63   | -1.66                      | 1.78                  | 2.2                         | 10                 | 10                 | 1                          | 14                    | w.                            | E. J. Hile.            |
| Beaufort                              | Beaufort     | 28              | 19                      | 40.5                                | -6.3                       | 67       | 28    | 21      | 14    | 23                        | 4.85   | +1.33                      | 1.90                  | 0                           | 15                 | 8                  | 7                          | 13                    | ne.                           | S. M. Benton.          |
| Bennettsville                         | Marlboro     |                 | 4                       | 40.3                                |                            | 65       | 28    | 20      | 4     | 32                        |        |                            |                       | 1.5                         | 16                 | 3                  | 9                          | w.                    | Jno. L. McCall.               |                        |
| Blackville                            | Barnwell     | 296             | 17                      | 40.3                                | -5.6                       | 67       | 28    | 15      | 4     | 35                        | 8.20   | +3.21                      | 3.26                  | 0                           | 12                 | 10                 | 10                         | 12                    | w.                            | G. D. C. Lange.        |
| Bowman                                | Orangeburg   | 160             | 4                       | 41.0                                |                            | 66       | 28    | 18      | 16    | 32                        | 6.11   |                            | 2.05                  | 0                           | 9                  | 6                  | 10                         | 12                    | w.                            | B. O. Evans.           |
| Calhoun Falls                         | Abbeville    | 508             | 12                      |                                     |                            |          |       |         |       |                           | 4.27   | -0.17                      | 0.99                  | 0                           | 9                  | 7                  | 0                          | 21                    | nw.                           | P. J. Jetter.          |
| Candlen                               | Kershaw      | 222             | 30                      |                                     |                            |          |       |         |       |                           | 3.83   | -0.06                      | 1.50                  | 0                           | 5                  | 11                 | 3                          | 14                    | nw.                           | J. C. Whitaker.        |
| Charleston                            | Charleston   | 48              | 36                      | 44.9                                | -7.9                       | 68       | 20    | 22      | 16    | 30                        | 5.67   | +2.34                      | 1.16                  | 0                           | 11                 | 6                  | 10                         | 12                    | nw.                           | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 27                      | 34.7                                | -10.3                      | 60       | 28    | 8       | 14    | 28                        | 5.38   | -0.87                      | 1.84                  | 5.7                         | 11                 | 9                  | 5                          | 11                    | ne.                           | Weather Bureau.        |
| Cheraw (1)                            | Chesterfield | 144             | 17                      | 36.6                                | -9.7                       | 63       | 27    | 14      | 16    | 34                        | 5.63   | +1.31                      | 1.57                  | 2.5                         | 12                 | 7                  | 3                          | 15                    | n.                            | W. R. Godfrey.         |
| Cheraw (2)                            |              | 144             | 12                      |                                     |                            |          |       |         |       |                           | 5.79   | +1.02                      | 1.64                  | 3.7                         | 12                 | 11                 | 3                          | 14                    | n.                            | Jno. H. Powe.          |
| Charles Hill                          | Edgefield    | 456             | 3                       | 38.6                                |                            | 68       | 28    | 8       | 14    | 35                        | 5.99   |                            | 1.40                  | 0                           | 7                  | 7                  | 3                          | 18                    | ne.                           | Wm. S. Middleton.      |
| Chenoweth College                     | Oconee       | 850             | 14                      | 36.8                                | -5.0                       | 61       | 28    | 14      | 16    | 29                        | 4.90   | -0.55                      | 2.60                  | 0                           | 4                  | 9                  | 1                          | 18                    | ne.                           | Jno. N. Hook.          |
| Columbia                              | Richland     | 351             | 18                      | 38.8                                | -9.4                       | 65       | 28    | 16      | 14    | 26                        | 5.03   | +0.85                      | 1.74                  | 2.2                         | 13                 | 6                  | 8                          | 14                    | ne.                           | Central Office.        |
| Conway                                | Horry        | 25              | 14                      | 41.3                                |                            | 65       | *20   | 17      | 16    | 32                        | 4.45   | -0.13                      | 0.80                  | 2.5                         | 9                  | 21                 | 0                          | 7                     | n.                            | McQ. Quattlebaum.      |
| Darlington                            | Darlington   | 175             | 10                      |                                     |                            |          |       |         |       |                           |        |                            |                       |                             |                    |                    |                            |                       | ne.                           | Robt. E. James.        |
| Dillon                                | Marion       | 100             | 1                       | 39.5                                |                            | 65       | 28    | 16      | 17    | 35                        | 5.29   |                            | 1.92                  | 6.7                         | 9                  | 11                 | 3                          | 14                    | ne.                           | A. E. Rowell.          |
| Due West                              | Abbeville    | 740             | 4                       | 37.2                                |                            | 62       | *25   | 10      | 14    | 27                        | 6.44   |                            | 1.60                  | 0                           | 9                  | 9                  | 6                          | 13                    | w.                            | Rev. O. Y. Bonner.     |
| Edisto                                | Berkeley     | 127             | 12                      |                                     |                            |          |       |         |       |                           | 7.90   | +3.19                      | 2.60                  | 0                           | 5                  | 8                  | 9                          | 11                    | se.                           | Mrs. M. Thompson.      |
| Ellingham                             | Florence     | 106             | 13                      |                                     |                            |          |       |         |       |                           | 6.88   | +2.26                      | 1.80                  | 10.0                        | 9                  | 16                 | 0                          | 12                    | nw.                           | H. B. McCall.          |
| Enoree                                | Spartanburg  | 987             | 0                       |                                     |                            |          |       |         |       |                           | 4.36   |                            | 1.26                  | 2.5                         | 8                  | 12                 | 1                          | 15                    | nw.                           | E. P. Porter.          |
| Florence                              | Florence     | 136             | 17                      | 38.0                                | -9.0                       | 66       | 28    | 16      | 16    | 33                        | 4.58   | -0.55                      | 3.00                  | 0                           | 6                  | 11                 | 1                          | 16                    | ne.                           | H. K. Gilbert.         |
| Galley                                | Cherokee     | 893             | 9                       | 35.0                                |                            | 65       | 28    | 8       | 14    | 36                        | 4.34   | +0.46                      | 0.92                  | 5.0                         | 9                  | 15                 | 0                          | 13                    | w.                            | B. F. Camp.            |
| Georgetown                            | Georgetown   | 12              | 12                      | 43.6                                | -4.3                       | 66       | 20    | 19      | 15    | 35                        | 3.72   | +0.36                      | 1.16                  | 0.4                         | 11                 | 9                  | 2                          | 17                    | ne.                           | Reid Whitford.         |
| Greenville                            | Greenville   | 989             | 13                      | 33.5                                | -6.7                       | 63       | 28    | 6       | 14    | 38                        | 3.73   | -1.15                      | 1.40                  | 7.5                         | 8                  | 12                 | 1                          | 15                    | ne.                           | Mrs. S. A. Crittenden. |
| Greenwood                             | Greenwood    | 671             | 17                      | 35.3                                | -7.3                       | 62       | 28    | 10      | *14   | 33                        | 6.24   | +1.35                      | 1.75                  | 4.0                         | 8                  | 11                 | 0                          | 17                    | w.                            | M. M. Calhoun.         |
| Heath Springs                         | Lancaster    |                 | 4                       | 33.9                                |                            | 60       | 28    | 11      | 16    | 47                        | 5.97   |                            | 2.08                  | 3.6                         | 10                 | 6                  | 7                          | 15                    | ne.                           | J. A. Weaver.          |
| Kingstree (1)                         | Williamsburg | 54              | 17                      |                                     |                            |          |       |         |       |                           | 4.02   | -0.10                      | 1.49                  | 0                           | 6                  | 8                  | 5                          | 15                    | ne.                           | J. A. Scott.           |
| Kingstree (2)                         |              | 54              | 11                      |                                     |                            |          |       |         |       |                           | 4.02   | -0.10                      | 1.49                  | 0                           | 6                  | 8                  | 5                          | 15                    | ne.                           | A. O. Matthews.        |
| Liberty                               | Pickens      | 900             | 11                      | 36.4                                | -3.8                       | 65       | 28    | 7       | 14    | 35                        | 4.83   | -0.60                      | 2.50                  | 8.2                         | 7                  | 9                  | 5                          | 14                    | e.                            | John T. Boggs.         |
| Little Mountain                       | Newberry     | 711             | 12                      | 37.0                                | -8.3                       | 65       | 28    | 11      | 14    | 29                        | 5.44   | +0.24                      | 1.20                  | 1.5                         | 11                 | 5                  | 10                         | 13                    | ne.                           | John M. Sease, M. D.   |
| Lugoff                                | Kershaw      | 168             | 4                       | 35.1                                |                            | 68       | 28    | 11      | 15    | 35                        | 5.66   |                            | 2.10                  | 20.5                        | 6                  | 10                 | 4                          | 14                    | n.                            | W. J. Burdell, M. D.   |
| Newberry                              | Newberry     | 502             | 1                       | 37.5                                | -5.9                       | 64       | 28    | 13      | 14    | 34                        | 5.63   | -0.09                      | 1.02                  | 5.5                         | 11                 | 7                  | 7                          | 14                    | w.                            | W. G. Peterson.        |
| Pelzer                                | Anderson     | 873             | 0                       |                                     |                            |          |       |         |       |                           | 5.53   |                            | 0.98                  | 6.0                         | 8                  | 10                 | 3                          | 15                    | w.                            | John M. Ward.          |
| Pineopolis                            | Berkeley     | 54              | 12                      |                                     |                            |          |       |         |       |                           |        |                            |                       |                             |                    |                    |                            |                       | ne.                           | E. P. Ravenel.         |
| St. Georges                           | Dorchester   | 109             | 17                      | 41.6                                | -6.3                       | 68       | 25    | 19      | *16   | 36                        | 4.55   | +0.38                      | 1.15                  | 0                           | 7                  | 15                 | 0                          | 13                    | ne.                           | W. B. Rayson.          |
| St. Matthew                           | Orangeburg   | 269             | 17                      | 39.1                                | -7.3                       | 65       | *27   | 18      | 17    | 36                        | 7.45   | +2.69                      | 3.00                  | 4.0                         | 7                  | 17                 | 0                          | 11                    | n.                            | J. S. Warramaker.      |
| St. Stephen                           | Berkeley     | 73              | 13                      |                                     |                            |          |       |         |       |                           | 5.06   | +0.70                      | 1.55                  | 0                           | 9                  | 9                  | 1                          | 16                    | n.                            | C. T. Shuler.          |
| Saluda                                | Saluda       | 536             | 4                       | 37.8                                |                            | 66       | 28    | 10      | 14    | 36                        | 6.08   |                            | 1.41                  | 8.4                         | 10                 | 11                 | 1                          | 16                    | ne.                           | Alvin Etheridge.       |
| Santee                                | Union        | 512             | 12                      | 36.2                                | -6.0                       | 64       | 28    | 11      | 13    | 31                        | 6.96   | +1.92                      | 1.53                  | 3.8                         | 11                 | 6                  | 7                          | 15                    | n.                            | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham      | 71              | 36                      | 47.2                                | -7.1                       | 76       | 12    | 21      | 14    | 27                        | 4.55   | +1.47                      | 1.66                  | 0                           | 12                 | 4                  | 5                          | 19                    | ne.                           | Weather Bureau.        |
| Severn                                | Aiken        | 482             | 4                       | 37.6                                | -10.6                      | 67       | 28    | 10      | 14    | 39                        | 6.38   | +1.47                      | 1.64                  | T.                          | 11                 | 6                  | 8                          | 14                    | w.                            | Geo. C. Gunter.        |
| Smiths Mills                          | Williamsburg | 62              | 10                      |                                     |                            |          |       |         |       |                           | 5.53   | +1.34                      | 2.00                  | 0                           | 7                  | 14                 | 0                          | 14                    | w.                            | H. van Keuren.         |
| Society Hill                          | Darlington   | 192             | 14                      | 37.7                                | -7.5                       | 61       | 28    | 15      | 15    | 36                        | 4.78   | -0.42                      | 1.48                  | 1.0                         | 9                  | 9                  | 2                          | 17                    | ne.                           | J. J. Lucas.           |
| Spartanburg                           | Spartanburg  | 875             | 14                      | 35.8                                | -8.4                       | 65       | 28    | 8       | *14   | 39                        | 5.81   | +0.31                      | 2.20                  | 1.0                         | 5                  | 11                 | 2                          | 15                    | ne.                           | F. P. Robinson.        |
| Stateburg                             | Sumter       | 500             | 28                      | 39.8                                | -9.4                       | 66       | 28    | 15      | 16    | 27                        | 6.01   | +1.98                      | 1.82                  | 1.0                         | 12                 | 4                  | 8                          | 16                    | w.                            | W. W. Anderson, M. D.  |
| Summerville                           | Dorchester   | 75              | 8                       | 43.7                                | -4.8                       | 69       | *12   | 19      | 15    | 34                        | 3.72   | -1.09                      | 1.08                  | T.                          | 12                 | 5                  | 10                         | 13                    | ne.                           | Miss E. H. Gadsden.    |
| Sumter                                | Sumter       | 169             | 4                       | 43.2                                |                            | 70       | 28    | 18      | 16    | 36                        | 5.76   |                            | 3.00                  | 0                           | 5                  | 10                 | 4                          | 9                     | w.                            | Wm. D. Shaw.           |
| * Trenton                             | Edgefield    | 620             | 12                      | 37.9                                | -9.3                       | 62       | 28    | 10      | 14    | 28                        | 6.37   | -0.32                      | 1.45                  | 1.5                         | 10                 | 9                  | 6                          | 13                    | w.                            | C. A. Long.            |
| Trials                                | Berkeley     | 85              | 19                      | 41.5                                | -7.5                       | 67       | 12    | 18      | 15    | 37                        | 5.15   | +1.05                      | 3.05                  | 0                           | 4                  | 9                  | 8                          | 11                    | ne.                           | Etsell Gaillard.       |
| Walhalla                              | Oconee       | 1061            | 14                      | 37.1                                | -7.7                       | 70       | 28    | 0       | 14    | 35                        | 5.65   | +1.33                      | 1.52                  | 3.1                         | 9                  | 12                 | 5                          | 11                    | ne.                           | J. D. Isbell.          |
| Walterboro                            | Colleton     |                 | 2                       | 45.2                                |                            | 71       | 28    | 19      | *14   | 37                        | 3.83   |                            | 1.41                  | 0                           | 10                 | 12                 | 3                          | 13                    | w.                            | J. A. Westerberg.      |
| Wilmington, N. C.                     | New Hanover  | 52              | 36                      | 40.7                                | -9.1                       | 65       | 20    | 17      | 16    | 34                        | 5.44   | +2.21                      | 2.1                   | 0                           | 12                 | 7                  | 12                         | 9                     | nw.                           | Weather Bureau.        |
| Winnboro                              | Fairfield    | 545             | 16                      | 37.5                                | -9.1                       | 65       | 28    | 13      | 16    | 30                        | 6.30   | +1.69                      | 1.70                  | 3.0                         | 10                 | 10                 | 8                          | 10                    | ne.                           | John W. Seigler.       |
| Winthrop College                      | York         | 690             | 6                       | 35.6                                | -10.3                      | 62       | 28    | 9       | 14    | 28                        | 4.97   | +0.28                      | 1.52                  | 8.0                         | 9                  | 10                 | 9                          | 9                     | ne.                           | Geo. B. Green.         |
| Yemassee                              | Beaufort     | 23              | 10                      | 44.0                                | -5.3                       | 72       | 20    | 18      | 14    | 35                        | 3.90   | -0.56                      | 1.57                  | 0                           | 9                  | 11                 | 1                          | 16                    | ne.                           | J. G. Hutson.          |
| Yorkville                             | York         | 680             | 17                      | 37.5                                | -7.5                       | 66       | 28    | 10      | 14    | 32                        | 5.33   | +0.56                      | 1.50                  | 5.5                         | 10                 | 6                  | 8                          | 14                    | ne.                           | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 38.9                                | -7.7                       | 72       | 20    | 0       | 14    | 47                        | 5.21   | +0.87                      | 3.26                  | 2.1                         | 9                  | 10                 | 4                          | 14                    | ne.                           |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also.

a indicates 1 day missing, b, 2 days, etc.



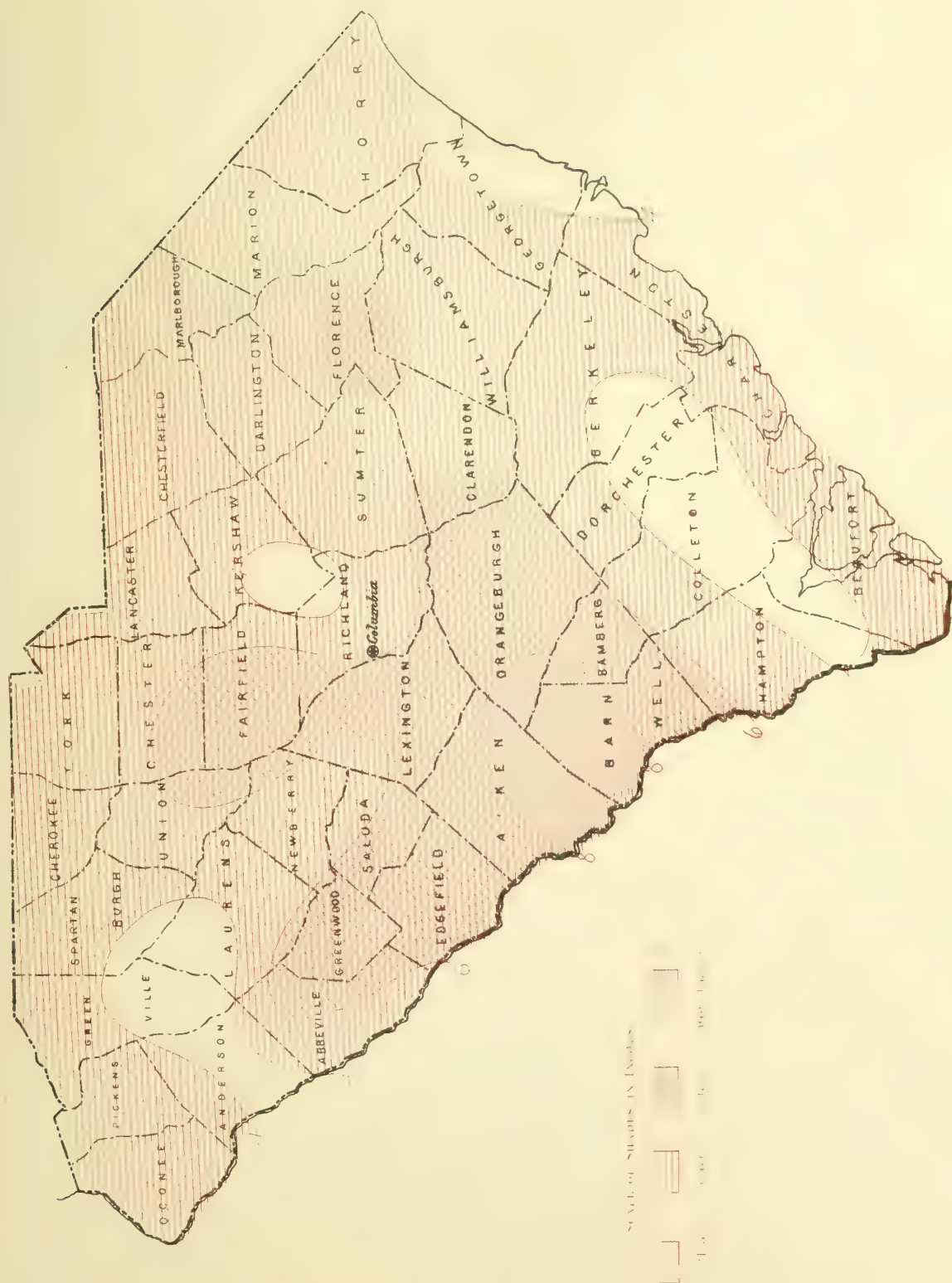
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING FEBRUARY, 1905,

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.



# TOTAL PRECIPITATION FOR FEBRUARY, 1905.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, FEBRUARY, 1905.

| STATIONS.         | Day of Month. |     |     |     |     |      |     |      |      |      |      |      |      |      |     |    |    |    |    |     |      |      |      |     |    |     |     |     |     |    |    | Total. |      |
|-------------------|---------------|-----|-----|-----|-----|------|-----|------|------|------|------|------|------|------|-----|----|----|----|----|-----|------|------|------|-----|----|-----|-----|-----|-----|----|----|--------|------|
|                   | 1             | 2   | 3   | 4   | 5   | 6    | 7   | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15  | 16 | 17 | 18 | 19 | 20  | 21   | 22   | 23   | 24  | 25 | 26  | 27  | 28  | 29  | 30 | 31 |        |      |
| Aiken             |               |     |     | .15 |     | .20  | .30 | .60  | .60  |      |      | 2.40 | 1.25 |      |     |    |    |    |    | .35 | 1.40 |      |      |     |    |     |     |     |     |    |    | 7.25   |      |
| Allendale         |               |     |     |     |     | 1.10 |     |      |      |      |      | 3.20 | 1.50 |      |     |    |    |    |    | T.  | .93  |      |      |     |    |     |     |     |     |    |    | 6.73   |      |
| Anderson          |               | T.  |     | .30 |     | .20  |     |      | .60  |      |      | .80  |      |      |     |    |    |    |    | T.  | 1.80 |      |      |     |    | T.  |     |     |     |    |    | 3.70   |      |
| Augusta, Ga.      |               |     | .10 | .12 | .26 |      | T.  | 1.08 | .44  |      | .53  | 2.25 | .66  |      |     |    |    |    |    | T.  | 1.13 | .47  |      |     |    | T.  |     |     |     |    |    | 7.04   |      |
| Barksdale         |               |     | .40 | .50 | .72 |      |     | .60  |      |      |      | .80  | .45  |      |     |    |    |    |    | T.  | T.   |      |      |     |    |     |     |     |     |    |    | 2.87   |      |
| Batesburg         |               |     |     | .04 | .02 | .16  |     | .08  | .23  |      |      | .94  | .04  | T.   |     |    |    |    |    |     | .14  | 1.78 | .20  |     |    |     |     |     |     |    |    | 4.63   |      |
| Beaufort          |               | .02 |     | .05 | .11 | .24  | T.  | .07  | .38  | .01  | .15  | 1.52 | .30  |      |     |    |    |    |    | .01 | .04  | 1.90 | .04  |     |    |     |     |     |     |    |    | 4.85   |      |
| Bennettsville     | T.            |     | .10 | .05 |     |      | T.  |      |      |      |      |      |      |      |     |    |    |    |    |     | 1.00 |      |      |     |    |     |     |     |     |    |    |        |      |
| Blackville        |               |     |     | .07 | .14 | .36  |     | .11  | .35  |      | 1.00 | 1.24 | 3.26 | .36  |     |    |    |    |    |     | .01  | .50  | .80  |     |    |     |     |     |     |    |    | 8.20   |      |
| Bowman            |               |     |     | .20 | .09 |      |     | .07  | .38  |      | .04  | 2.05 | 2.03 |      |     |    |    |    |    |     | T.   | 1.18 |      |     |    | T.  |     |     |     |    |    | 6.11   |      |
| Calhoun Falls     |               |     |     |     | .26 | .18  |     | .28  | .32  |      |      | .36  | .96  | .18  |     |    |    |    |    |     |      | .99  | .74  |     |    |     |     |     |     |    |    | 4.27   |      |
| Camden            |               |     |     |     |     |      |     |      |      |      |      | .87  | 1.50 |      |     |    |    |    |    |     | .12  | 1.14 | .20  |     |    |     |     |     |     |    |    | 3.83   |      |
| Charleston        |               | T.  |     | .07 | .24 | .32  |     | .19  | .39  |      | .32  | .75  | .18  |      |     |    |    |    |    | T.  | .54  | .66  | .01  |     |    | T.  |     |     |     |    |    | 5.07   |      |
| Charlotte, N. C.  | T.            | T.  | .22 | .08 | .73 |      |     | 1.02 | .11  |      | .03  | .75  | .46  |      |     |    |    |    |    | .10 | 1.82 | T.   |      |     |    | .06 |     |     |     |    |    | 5.38   |      |
| Cheraw(1)         |               |     | .01 | .25 | .01 | .69  |     | .61  |      |      |      | .53  | 1.17 | .20  |     |    |    |    |    | .43 | 1.57 | .09  |      |     |    |     |     | .07 |     |    |    | 5.63   |      |
| Cheraw(2)         |               | T.  |     | .38 | .02 | .66  |     | .02  | .67  |      |      | .46  | 1.24 | .08  |     |    |    |    |    |     | .44  | 1.64 | .10  |     |    |     |     | .08 |     |    |    | 5.79   |      |
| Clark's Hill      |               |     |     | .98 |     |      |     | 1.37 |      |      |      | .14  | 1.40 | 1.00 |     |    |    |    |    |     | .80  | .30  |      |     |    | T.  |     |     |     |    |    | 5.99   |      |
| Clemson College   |               |     |     |     | .88 |      |     |      |      |      |      | .92  | .50  |      |     |    |    |    |    |     | 2.60 |      |      |     |    |     |     |     |     |    |    | 4.90   |      |
| Columbia          |               | T.  | .06 | .01 | .48 | .02  |     | .56  | .05  |      | .33  | 1.10 | .07  |      |     |    |    |    |    | .03 | 1.00 | .40  | .02  |     |    | T.  |     |     |     |    |    | 5.03   |      |
| Conway            |               |     |     | .25 |     | .30  |     | .15  | .55  |      |      | .50  | .80  | .60  |     |    |    |    |    |     |      | .80  | .50  |     |    |     |     |     |     |    |    | 4.45   |      |
| Darlington        |               |     |     |     |     |      |     |      |      |      |      |      |      |      |     |    |    |    |    |     |      |      |      |     |    |     |     |     |     |    |    |        |      |
| Dillon            |               | T.  | .08 | .30 | .29 |      | T.  | .52  |      |      |      | 1.08 | 1.92 |      |     |    | T. |    |    |     | .18  | .91  |      |     |    |     | .01 |     |     |    |    | 5.29   |      |
| Due West          |               |     | .14 | T.  | .69 | .38  |     |      | 1.13 | 1.07 |      |      | .62  | .53  |     |    |    |    |    |     | T.   | 1.60 | .28  |     |    |     |     |     |     |    |    | 6.44   |      |
| Edisto            |               |     |     |     |     |      |     | .30  |      |      | T.   | 2.60 | 2.00 |      |     |    |    |    |    |     |      | 2.00 | 1.00 |     |    |     |     |     |     |    |    | 7.90   |      |
| Emingham          |               |     |     | .60 | .25 | .25  |     | T.   | .75  |      |      | .90  | 1.80 | .75  |     |    |    |    |    |     | T.   | 1.08 | .50  |     |    |     |     |     |     |    |    | 6.88   |      |
| Enoree            |               |     |     | .25 | .15 | .05  |     |      | .60  |      |      | .65  | .60  |      |     |    |    |    |    |     | .80  | 1.26 |      |     |    |     |     |     |     |    |    | 4.36   |      |
| Florence          |               |     |     | .10 |     |      |     |      |      |      |      | .40  | 3.00 |      |     |    |    |    |    |     | .05  | .70  | .33  |     |    |     |     |     |     |    |    | 4.58   |      |
| Gaffney           |               |     |     | .10 |     | .50  |     | .40  | .58  |      |      | .20  | .38  | .44  |     |    |    |    |    |     | .92  | .82  |      |     |    |     |     |     |     |    |    | 4.34   |      |
| Georgetown        |               |     | .02 | .02 | .50 |      | .03 | .62  |      |      | .29  | 1.16 | .23  |      |     |    |    |    |    | .03 | .56  | .26  |      |     |    | T.  |     |     |     |    |    | 3.72   |      |
| Greenville        |               |     |     | .20 |     | .20  | .10 |      |      |      | .05  | 1.40 | .05  |      |     |    |    |    |    |     | 1.20 | .50  | .03  |     |    |     |     |     |     |    |    | 3.73   |      |
| Greenwood         |               |     |     | .57 | .57 |      |     | .20  | 1.75 |      |      | .58  | .90  |      |     |    |    |    |    |     | .55  | 1.12 |      |     |    |     |     |     |     |    |    | 6.24   |      |
| Heath Springs     |               |     | .18 |     | .18 |      |     | 2.08 |      |      |      | .20  | .90  | .46  |     |    |    |    |    |     | .20  | 1.70 | .06  |     |    | .01 |     |     |     |    |    | 5.97   |      |
| Kingstree(1)      |               |     |     | .20 |     |      |     |      | .45  |      |      | 1.49 |      | 1.26 | .27 |    |    |    |    |     |      |      | .35  |     |    |     |     |     |     |    |    | 4.02   |      |
| Kingstree(2)      |               |     |     |     |     |      |     |      | .25  | .01  | T.   | 1.52 |      |      |     |    |    |    |    |     | .20  | 2.50 |      |     |    | T.  |     |     |     |    |    | 4.83   |      |
| Liberty           | T.            | T.  | .20 |     | .15 |      |     |      |      |      |      |      | 1.52 |      |     |    |    |    |    |     |      | 1.20 | .45  | .02 |    |     |     |     |     |    |    | 5.44   |      |
| Little Mountain   |               |     | .10 | .12 | .65 |      | .02 | 1.00 |      |      |      | 2.0  | 1.03 | .65  |     |    |    |    |    |     | T.   | 1.26 |      |     |    |     |     |     |     |    |    | 5.66   |      |
| Lugoff            |               | T.  |     | .10 | .95 | 1.00 |     | .25  |      |      |      |      | 2.10 |      |     |    |    |    |    |     |      |      |      |     |    |     |     |     |     |    |    | 5.63   |      |
| Newberry          |               |     | .21 | .20 | .67 |      | .36 | .90  |      |      | .65  | 1.02 | .04  |      |     |    |    |    |    |     | .53  | .95  | .10  |     |    | T.  |     |     |     |    |    | 5.53   |      |
| Pelzer            |               |     |     | .25 |     | .75  |     |      | .35  | .95  |      |      | .45  | .85  |     |    |    |    |    |     |      | .98  | .95  |     |    |     |     |     |     |    |    | 5.53   |      |
| Pinopolis         |               |     |     |     |     |      |     |      |      |      |      |      |      |      |     |    |    |    |    |     |      |      |      |     |    |     |     |     |     |    |    | 4.55   |      |
| St. Georges       |               |     |     |     |     | .15  |     | .15  | .20  |      |      | 1.00 | 1.00 |      |     |    |    |    |    |     | 1.15 | .90  |      |     |    |     |     |     |     |    |    | 7.45   |      |
| St. Matthew       |               |     | .20 |     |     |      |     | .75  |      |      |      | 2.00 | 3.00 | .50  |     |    |    |    |    |     |      | .80  |      |     |    |     |     |     |     |    |    | 5.06   |      |
| St. Stephen       |               |     |     | .16 |     | .05  |     | .25  | .35  |      |      | .90  | 1.55 | .47  |     |    |    |    |    |     |      | 1.03 | .30  |     |    |     |     |     |     |    |    | 6.08   |      |
| Saluda            |               |     |     | .20 | .30 | .25  |     | 1.00 | .40  | .02  |      | 1.41 | .91  |      |     |    |    |    |    | T.  | .64  | .86  | T.   |     |    |     |     |     |     |    |    | 6.96   |      |
| Santuc            |               |     | .10 | .06 | .48 | .34  |     | .95  | .62  |      |      | .80  | .60  |      |     |    |    |    |    |     | T.   | 1.53 | .46  |     |    |     |     |     | .02 |    |    |        | 4.55 |
| Savannah, Ga.     | .06           | .01 |     | T.  | .70 | .36  | .14 | .22  | .12  | T.   | .98  | .71  | .11  |      |     |    |    |    |    |     | T.   | .05  | 1.09 |     |    |     |     |     |     |    |    | 6.38   |      |
| Seivern           |               |     | .10 | .25 | .40 |      | .45 | .50  |      |      |      | 1.53 | 1.64 | .08  |     |    |    |    |    |     | .09  | 1.04 | .30  |     |    |     |     |     |     |    |    | 5.53   |      |
| Smiths Mills      |               |     | .20 |     | .40 |      |     |      |      |      |      | 2.00 | 1.60 | .45  |     |    |    |    |    |     |      | .70  |      |     |    |     |     |     |     |    |    | 4.78   |      |
| Society Hill      | T.            |     | .07 |     | .44 |      | .16 | .57  |      |      | .50  | 1.48 |      |      |     |    |    |    |    |     | .30  | 1.18 | .08  |     |    |     |     |     |     |    |    | 5.81   |      |
| Spartanburg       |               |     |     | .20 |     | .90  |     | 1.39 |      |      |      | 1.82 | 1.52 |      |     |    |    |    |    |     | .04  | .94  | .48  | .04 |    |     | T.  |     |     |    |    | 6.01   |      |
| Stateburg         |               |     | .13 |     | .51 |      |     | .18  | .35  |      |      | 1.08 | .45  | .35  |     |    |    |    |    |     | .01  | .48  | .35  |     |    |     | T.  |     |     |    |    | 3.72   |      |
| Summerville       |               |     | .11 | .18 | .11 | .07  | .08 | .45  |      |      |      | 3.00 | 1.70 |      |     |    |    |    |    |     | .01  | 1.02 | T.   |     |    |     |     |     |     |    |    | 5.77   |      |
| Sumter            |               |     | .03 |     |     |      |     |      |      |      |      |      | 1.25 | 1.45 |     |    |    |    |    |     | T.   | .76  | .90  |     |    |     |     |     |     |    |    | 6.37   |      |
| Trenton           |               |     |     | .09 | .57 | .06  | .02 | .64  | .63  |      |      |      | 3.05 |      |     |    |    |    |    |     |      | 1.20 |      |     |    |     |     |     |     |    |    | 5.17   |      |
| Trial             |               |     |     | .65 |     |      |     | .25  |      |      |      |      | .52  |      |     |    |    |    |    |     | .13  | 1.20 | .10  |     |    |     |     |     |     |    |    | 5.61   |      |
| Walhalla          |               |     | .18 |     | .85 | .30  |     | .85  | 1.52 |      |      |      | .52  |      |     |    |    |    |    |     |      |      |      |     |    |     |     |     |     |    |    | 3.87   |      |
| Walterboro        |               |     |     | T.  | .02 | .35  |     | .07  | .50  |      |      | .04  | 1.41 | .81  |     |    |    |    |    |     |      | .05  | .53  | .05 |    |     | T.  |     |     |    |    | 5.4    |      |
| Wilmington, N. C. |               | T.  | .09 | .05 | .79 | .47  |     | .05  | .24  |      | .15  | .90  | .43  |      |     |    |    |    |    |     | 1.33 | .92  | .02  |     |    |     | T.  |     |     |    |    | 6.36   |      |
| Winnsboro         |               |     | .20 | .30 | .43 | .10  | .10 | .30  |      |      | 1.20 | 1.00 | T.   |      |     |    |    |    |    |     | 1.00 | 1.70 |      |     |    |     | T.  |     |     |    |    | 4.97   |      |
| Winthrop College  |               |     | .10 | .30 | .40 |      |     | .90  |      |      |      | .75  | .55  |      |     |    |    |    |    |     | 1.52 | .42  |      |     |    |     |     |     | .03 |    |    | 3.9    |      |
| Yemassee          |               |     |     | T.  | .05 | .25  |     | .30  | .39  |      |      | 1.57 | .30  | .17  | .01 |    |    |    |    |     | T.   | .40  | .47  |     |    |     |     |     |     |    |    | 5.3    |      |
| Yorkville         |               |     | .17 |     | .20 | .48  |     | .67  | .62  |      |      | .68  | .62  |      |     |    |    |    |    |     | T.   | 1.50 | .35  |     |    | .04 |     |     |     |    |    |        |      |

T. indicates trace, less than .01 inch.



151.06  
71.52

U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MARCH, 1905.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



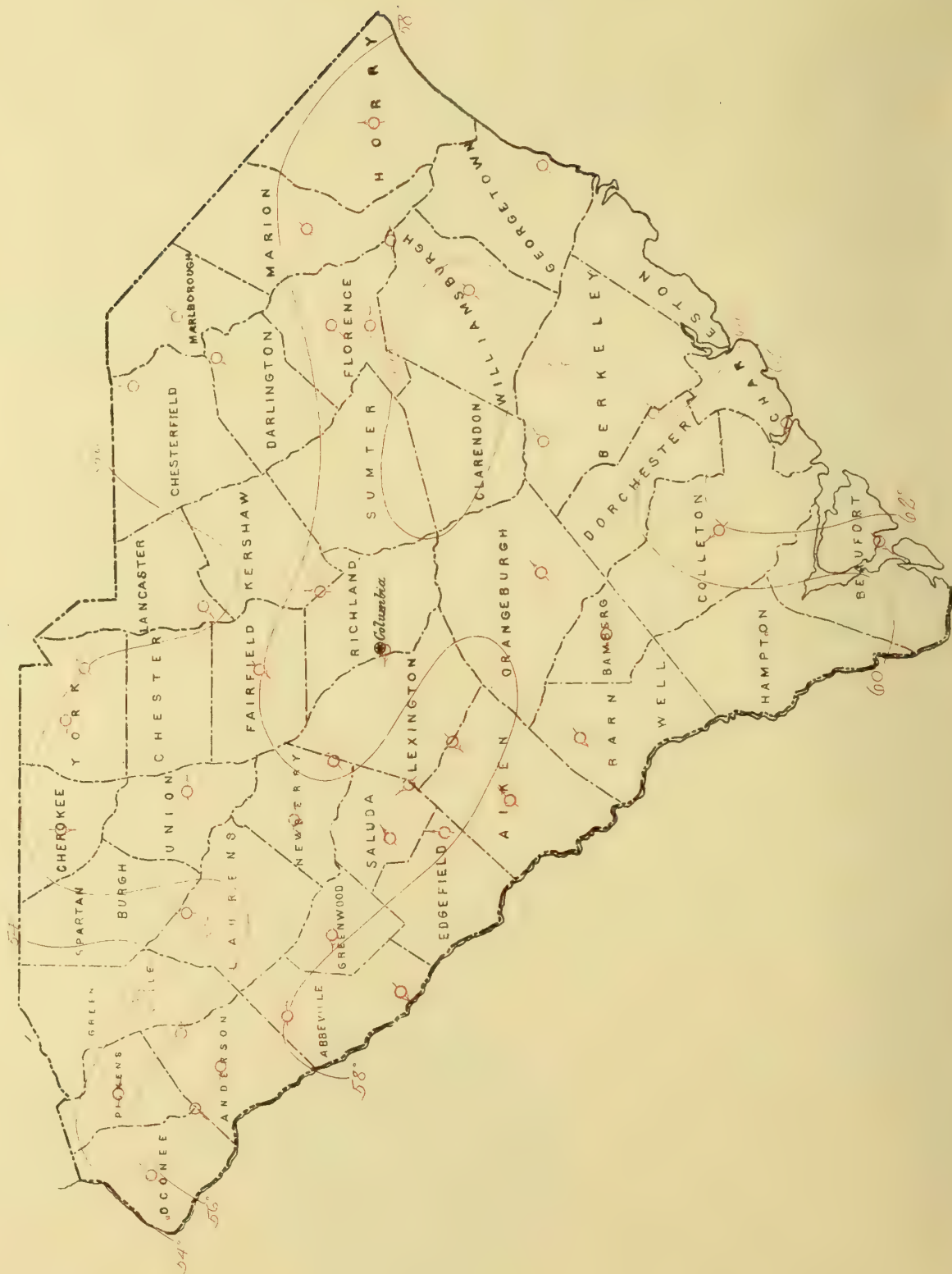
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

APRIL 29, 1905.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MARCH, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., MARCH, 1905.

No. 3.

PROGRESS OF FARM WORK.

With the exception of a few days near the middle of the month when it was slightly cooler than usual, the temperature was persistently high during March, 1905, and favorable for both the progress of farm work and rapid germination and growth of early vegetation that was so backward during the preceding month. The month was remarkable for the small number of frosts that occurred, namely, a generally heavy frost on the 3rd and light frosts on the 15th and 25th. The temperature did not fall to or below 32° after the third of the month, and rose to above 80° on a number of days with an extreme maximum of 93°, which is nearly mid-summer heat.

The precipitation was below normal in all parts of the State, and all of it was in the form of rain. There was a general rainy period from the 7th to the 12th, and there were widely scattered, light showers from the 27th to the 31st. In parts of the State the ground became very dry and broke up cloddy under the plow, but generally there was sufficient moisture in the ground for cultivation and for the germination of seeds.

The weather conditions were exceedingly favorable for the rapid progress of farm work of all kinds, so that the preparation of lands for early crops was as far advanced as usual by the close of the month, although having been backward at its beginning.

In the eastern and central parts of the State, the soil was in fine tilth and the preparation for corn and cotton thorough. Corn planting began early in the month in the southern counties and advanced to all parts of the State by the end, with some corn up in the eastern counties. A little cotton was planted, but this work was only begun, and only about half the lands were prepared for it. Some rice was planted in the Colleton district. Tobacco in beds grew rapidly, though the plants were only fair sized, owing to the February cool weather. Gardens were planted generally. Truck grew rapidly and shipments of lettuce and radishes were made during the closing days. Fruit trees of all kinds bloomed profusely after the first week, except in the extreme western counties where blooming began during the last week. Wheat and oats grew rapidly and became promising, except in sections, comprising scattered localities, where oats were badly winter-killed. A large acreage of spring oats was sown, which came up quickly to fine stands. Some spring wheat was sown. The weather was generally favorable during the first half, and entirely so during the second half of the month for the growth of all kinds of vegetation, and for the germination of seeds, as well as for the best development of fall sown grains, and the fruit prospects. There were, in short, no adverse conditions whatever.

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for March, 1905, was 57.8° which is 3.5° above normal. The highest local mean was 62.0° at Walterboro, the lowest was 52.8° at Clemson College. The monthly extremes were a maximum of 93° at Walterboro on the 31st, and a minimum of 28° at Gaffney on the 3rd, making the State range 65°. The greatest local monthly range was 59° at Walterboro, the least was 34° at Charleston. The mean of the daily maximum temperatures was 69.2°, and of the daily minimum temperatures was 46.5°, making the average daily range 22.7°.

Frosts.

The month had few frosts. On the 3rd killing frost occurred in the western parts of the State, with freezing temperatures in the extreme northwestern counties, and in other parts of the State the frost ranged from heavy to light. There was light frost in exposed places on the 15th, and a general light frost on the 25th.

Precipitation, in Inches.

The precipitation averaged 2.15 inches which is 1.70 below normal. The greatest local mean was 3.96 at Cheraw, the least was 0.89 at Anderson. The greatest 24-hour fall was 2.24 at Cheraw (2) on the 10th, and at Yemassee on the 11th-12th. The average number of days with 0.01 or more precipitation was 6, ranging from 2 at Edisto to 10 at Walhalla.

Excessive precipitation.—None.

Hail.—Blackville 9th, Walhalla 30th.

Snow.—Trace at Georgetown on the 14th and 16th.

Weather.

The average number of clear days was 15, of partly cloudy ones 6, and of cloudy ones 10.

Wind.

The prevailing direction of the wind was from the north-east at 16 stations, from the southwest at 9, from the west at 8, from the east at 7, from the south at 6, from the north at 3, from the southeast at 2, and from the northwest at 1 station.

High Winds.—Blackville, Columbia 9th, Charleston 5th, Georgetown 12-13th, Summerville 11-12th.

Barometer and Wind Table for March, 1905.

| STATIONS.              | BAROMETER. |          |       |         |       |                 | WIND.           |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.11      | 30.20    | 15    | 29.61   | 9     | 5.161           | 6.9             | 26                | sw.        | 9     |
| Charleston, S. C. .... | 30.11      | 30.40    | 15    | 29.83   | 10    | 8.747           | 11.8            | 36                | ne.        | 5     |
| Charlotte, N. C. ....  | 30.13      | 30.47    | 15    | 29.75   | 10    | 5.500           | 7.5             | 30                | sw.        | 21    |
| Columbia, S. C. ....   | 30.11      | 30.46    | 15    | 29.75   | 9     | 5.937           | 7.0             | 30                | sw.        | 9     |
| Savannah, Ga. ....     | 30.11      | 30.37    | 16    | 29.85   | 10    | 6.343           | 8.5             | 26                | sw.        | 9     |
| Washington, N. C. .... | 30.10      | 30.45    | 15    | 29.79   | 10    | 7.029           | 9.1             | 30                | sw.        | 9     |
| Averages ....          | 30.11      | 30.47    | 15    | 29.61   | 9     | 6.163           | 8.6             | 30                | ne.        | 9     |

MISCELLANEOUS PHENOMENA (with dates).

Earthquake.—Summerville, 5th, 9:15 a. m. (slight).

Lunar Halos.—Charleston, Stateburg 19th.

Fogs, Dense.—Anderson, Blackville, Columbia, Dillon, Seivern, Society Hill, Summerville 8th; Barksdale 24th, 29th; Beaufort 7th, 8th, 9th; Charleston 7th, 8th, 9th, 24th; Liberty 8th, 9th, 14th; Newberry, Yorkville 29th; Spartanburg 10th.



Thunderstorms.—Barksdale 20th; Beaufort 10th, 24th, 29th; Blackville, Cheraw, Little Mountain, Saluda, Society Hill 9th; Bowman, Trial 24th, Stateburg, Dillon 9th, 24th; Newberry 9th, 20th; Seivern 10th; Walhalla 21st, 30th; Yemassee 9-24th. The above summarized give 22 storms on 7 dates as follows: 9 on the 9th, 2 on the 10th, 2 on the 20th, 1 on the 21st, 6 on the 24th, 1 on the 29th, and 1 on the 30th. Thunderstorms were also reported from Charleston on the 9th and 24th, from Columbia on the 9th.

#### PHENOLOGICAL OBSERVATIONS.

[CONTINUED FROM FEBRUARY NUMBER.]

Wheat was sown from November 1st to December 20th, and harvested from June 5th to June 20th, with yields and quality both "poor".

For garden vegetables the dates differ more widely for some than others, thus irish potatoes were planted from February 15th to March 20th at all places, but the first were dug on May 5th at Charleston, and on June 1st at the other places. The second crop of irish potatoes was planted in August. Sweet potatoes were first planted at Charleston on May 1st, at Lugoff on May 21st, and at Newberry on May 10th. At Charleston the first were dug on August 10th, at Lugoff on October 20th and at Newberry on September 1st. The yields were "large", "fine" and "excellent" respectively.

Melons were planted from April 1st to April 25th at Charleston, from April 11th to 20th at Lugoff, and from April 20th to August 10th at Newberry. They began to ripen at Charleston on June 10th, at Lugoff on July 7th, and at Newberry on July 10th. In the Charleston truck district beans were planted from March 10th to April 15th, and from August 25th to September 15th. The first crop was picked from April 25th to May 20th; the second from October 26th to the first killing frost. Peas were planted from February 15th to March 15th, and picked from April 10th to April 30th. Cucumbers were planted from March 15th to March 30th, and picked from May 1st to June 10th. The other stations did not report on garden truck. Grasses were reported on only from Charleston, and from there only on Hungarian grass and millet, both of which were sown from June 15th to 25th, and cut from August 25th to September 15th.

Rice planting began at Charleston on March 15th and continued to June 15th; at Lugoff (upland rice) planting began on April 1st, ended April 15th. Harvesting began at Charleston on July 15th, ended October 10th; at Lugoff began September 25th, ended October 1st. The crop was "small" in the Charleston district, but quality "good". At Lugoff both quantity and quality were "good". Tobacco was reported on only from Dillon and the dates of planting given April and May, and for harvesting as June to September. The yield was "small" and the quality "average".

#### ERRATA.

The following corrections should be made in the January, 1905, number: Page 5, Batesburg, mean temperature 40.1 should be 40.0; Blackville, mean temperature 42.2 should be 41.8; Cheraw, mean temperature 39.2 should be 39.0; Clemson College, mean temperature 35.8 should be 35.4; Florence, mean temperature 40.4 should be 40.3; Greenville, mean temperature 33.8, should be 33.6; Greenwood, mean temperature 37.5, should be 37.3; Seivern, mean temperature 40.3, should be 40.0; Spartanburg, mean temperature 36.7, should be 36.6.

Page 6, maximum and mean maximum temperatures should be corrected as follows: Batesburg, 15th, 49 should be 44;

26th, 32 should be 26; mean 51.7 should be 51.4; Blackville 15th, 55 should be 45; 26th, 37 should be 26; mean 54.1 should be 53.6; Cheraw, 15th 48 should be 38; 26th, 33 should be 28; mean 50.7 should be 50.2; Clemson College, 14th, 41 should be 48; 25th, 35 should be 25; mean 44.5 should be 35.4; Conway, 15th, 59 should be 43; mean 53.9 should be 53.4; Florence, 15th, 43 should be 42; 26th, 31 should be 27; mean 52.7 should be 52.5; Greenville, 14th, 40 should be 34; 26th, 31 should be 27; mean 45.8 should be 45.5; Greenwood 15th, 44 should be 39; 26th, 32 should be 25; mean 47.1 should be 46.7; Heath Springs, 25th, 32 should be 38; 26th, 29 should be 23; Seivern, 15th, 52 should be 43; 26th, 31 should be 27; mean 53.2 should be 52.7; Spartanburg, 26th, 30 should be 21; mean 47.9 should be 47.6.

Page 8th, Saint Stephens, precipitation on 19th, 0 should be 0.32; pages 5 and 8, Saint Stephens, total precipitation 0.70 should be 1.02.

#### PHENOLOGICAL NOTES.

The following notes on the first appearance of blooms of different varieties of forest and fruit trees would indicate that the season is somewhat later than usual along the coast districts and as early, or slightly earlier, in the interior of the State. The difference between the times of blooming of peach trees in the extreme south and the northwest parts of the State is considerably less than last year.

Beaufort, first peach tree in bloom 10th; jessamine 11th; wild cherry 13th; maples 15th; pears 18th; wood-bine 31st. First chuck-will heard 28th. Dillon, first martin seen 10th; rain frog heard 20th. First peach blooms 9th; apple 27th; Liberty, first peach blooms 11th.

#### REMARKS BY OBSERVERS.

AIKEN.—The month was unusually warm, and very dusty. No frost occurred during the entire month. The rainfall was deficient. Roses were in bloom by the end of the month. ALLENDALE.—The month was exceptionally pleasant. There were no high winds. BARKSDALE.—The month was very favorable for all farm work. Small grains improved. Gardens were planted. Peach, cherry and plum trees are in full bloom. BATESBURG.—Farm work made rapid progress. Nearly all upland corn was planted, but it came up to poor stands. Cut-worms damaged gardens severely. Small grain crop developed nicely. BEAUFORT.—The mean temperature was 1.5° above normal; the precipitation was about normal. The season was backward at the beginning of March, but advanced rapidly during the second half. Farm work is well advanced. Much corn and cotton have been planted. BENNETTSVILLE.—Oats, wheat and rye stood the winter well. Corn has been planted. BOWMAN.—A delightful month for general farm work. Upland corn came up nicely. Some cotton was planted. Small grain crop became promising. All kinds of fruit trees in bloom. Poplars began to bud and show leaves on the 2nd, hickory on the 10th, gum or tupelo on the 15th, developing unusually fast. CLARKS HILL.—No frost during the month. DILLON.—The month was unusually warm. There were but two perfectly clear days, namely, the 25th and 31st. HEATH SPRINGS.—Weather favorable. Farm work well advanced. Corn, cane, white and sweet potatoes were planted. Small grain crops doing well. Stock in good condition. Peach trees were in full bloom. LIBERTY.—Fine growing weather, and small grain crops developed wonderfully, and look promising. Farm work advanced rapidly, and some corn was planted. The preparation of lands for cotton is well advanced. Peach and other fruit trees in bloom.



4) 1998-1999

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.

§ Exposed not standard.

\* On other dates also.

a indicates 1 day missing. b, 2 days, etc.

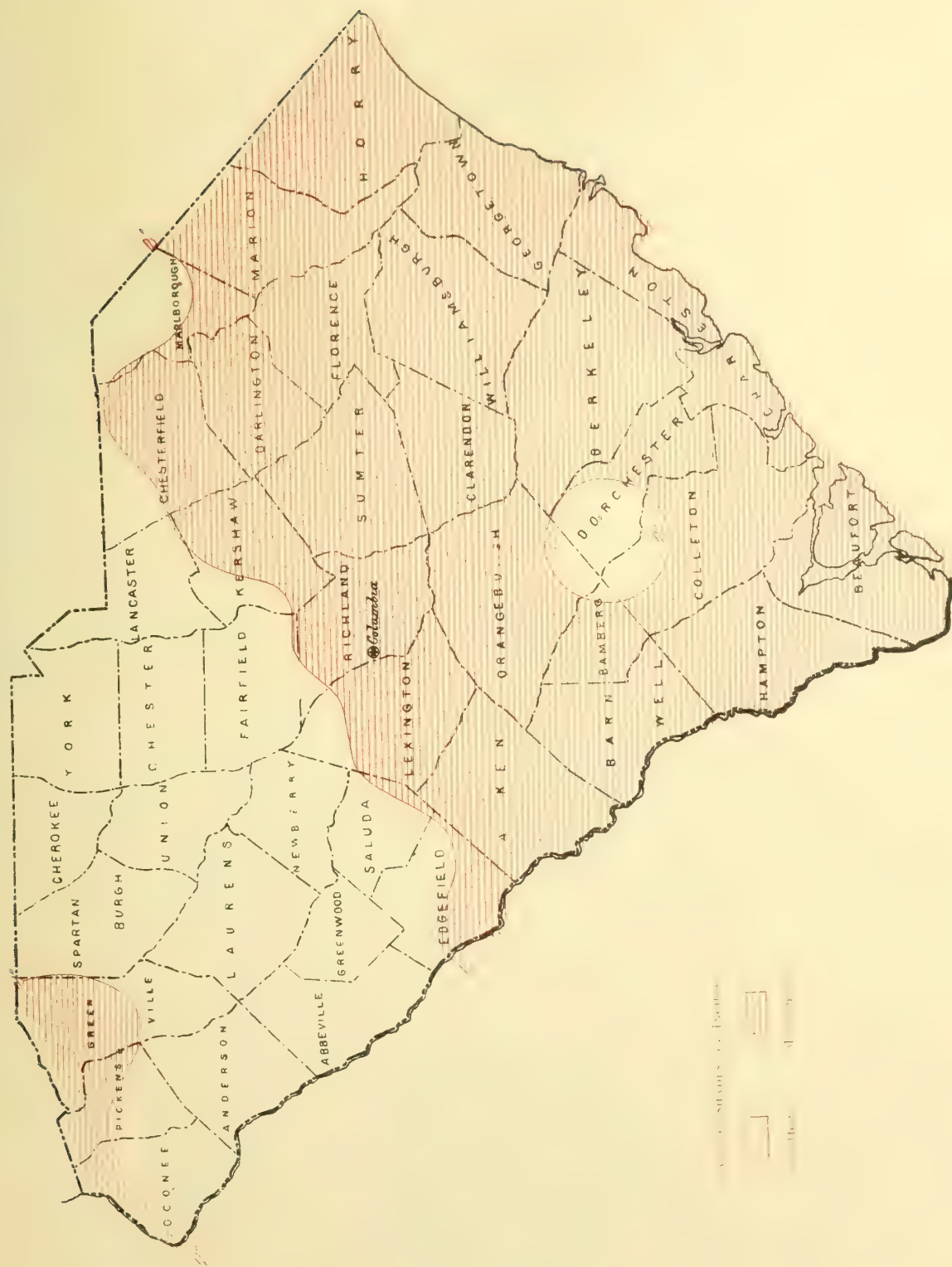
† Minimum thermometer not standard.



STATION 2.



# TOTAL PRECIPITATION FOR MARCH, 1905.



1.0 INCH OR MORE  
 .75 INCH OR MORE  
 .50 INCH OR MORE



## DAILY PRECIPITATION FOR SOUTH CAROLINA, MARCH, 1905.

| STATIONS.         | Day of Month. |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     | Total. |  |
|-------------------|---------------|---|---|---|----|----|----|-----|------|------|------|------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|----|----|-----|-----|--------|--|
|                   | 1             | 2 | 3 | 4 | 5  | 6  | 7  | 8   | 9    | 10   | 11   | 12   | 13   | 14  | 15  | 16   | 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24 | 25  | 26  | 27 | 28 | 29 | 30  | 31  |        |  |
| Aiken             |               |   |   |   |    |    |    |     | .35  |      | .20  | 1.80 |      |     |     | .15  |     |     |     | .60 |     |     |    |    |     |     |    |    |    |     |     | 3.10   |  |
| Allendale         |               |   |   |   |    |    |    |     |      | .70  | 1.01 | .69  |      |     | .60 |      |     |     |     |     | T.  |     |    |    |     |     |    |    |    |     |     | 3.00   |  |
| Anderson          |               |   |   |   |    |    |    |     |      |      | .50  |      |      |     |     |      |     |     |     |     | .15 |     |    |    | .16 |     |    |    |    | .08 |     | 0.89   |  |
| Augusta, Ga.      |               |   |   |   |    |    |    |     | .23  |      | .46  | .60  | .07  |     |     | .05  |     |     |     |     | .41 | .04 |    |    | .01 |     |    |    |    |     |     | 1.87   |  |
| Barksdale         |               |   |   |   |    |    |    |     | .08  |      | T.   | .77  | .10  |     |     |      |     |     |     |     | T.  | .35 |    |    | T.  |     |    |    |    |     |     | 1.35   |  |
| Batesburg         |               |   |   |   |    |    |    |     | .17  |      | .97  | .23  | .31  |     |     |      |     |     |     |     | .22 |     |    |    | .14 |     |    |    |    |     |     | 2.35   |  |
| Beaufort          |               |   |   |   | T. | T. | T. | .01 | .58  | .21  | 1.13 | .17  |      |     | T.  | 1.44 |     |     |     |     | T.  |     |    |    | .03 |     |    |    |    | .01 |     | 3.58   |  |
| Bennettsville     |               |   |   |   |    |    |    |     | .05  | .61  |      | 1.26 | .13  | .20 |     |      | .25 | .34 | .63 |     | .27 |     |    |    |     |     |    |    |    |     |     | 1.49   |  |
| Blackville        |               |   |   |   |    |    |    |     | 1.32 |      | .30  | 1.14 | .16  |     |     |      | T.  | .12 | .05 |     | T.  |     |    |    | .30 |     |    |    |    | T.  |     | 2.50   |  |
| Bowman            |               |   |   |   |    | T. |    |     |      |      |      | .54  | .22  | .18 |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     | 3.22   |  |
| Calhoun Falls     |               |   |   |   |    |    |    |     |      |      | .32  |      | 1.10 | .02 | .25 |      |     |     |     |     | .15 |     |    |    | .21 |     |    |    |    |     |     | 1.48   |  |
| Camden            |               |   |   |   |    |    |    |     |      |      | .03  | .02  | .19  | .43 | T.  | T.   |     |     |     |     | .10 | .01 |    |    | .13 |     | T. |    |    | .04 |     | 2.05   |  |
| Charleston        |               |   |   |   | T. | T. |    |     | .01  | .81  | .07  | .52  | .59  | .06 |     |      | .44 |     |     |     |     |     |    | T. | T.  |     |    |    |    |     |     | 2.50   |  |
| Charlotte, N. C.  |               |   |   |   |    | T. |    |     |      | .03  | .02  | .19  | .43  | T.  | T.  |      |     |     |     |     | .10 | .01 |    |    | .13 |     | T. |    |    |     |     | 0.95   |  |
| Cheraw(1)         |               |   |   |   |    |    |    |     |      | 1.61 | .85  | .14  | .27  |     |     |      |     |     |     |     | .09 |     |    |    | .24 |     |    |    |    |     |     | 3.23   |  |
| Cheraw(2)         |               |   |   |   |    |    |    |     |      | 2.24 |      | .86  | .16  | .29 |     |      | T.  |     |     |     | .13 |     |    |    |     | .28 |    |    |    |     |     | 3.96   |  |
| Clark's Hill      |               |   |   |   |    |    |    |     |      | .19  | .50  | 1.02 |      |     |     |      |     |     |     |     | .32 |     |    |    |     |     |    |    |    |     |     | 2.03   |  |
| Clemson College   |               |   |   |   |    |    |    |     | .10  | .13  |      | .44  |      |     |     |      |     |     |     |     | .14 |     |    |    | .30 |     |    |    |    |     | .11 | 1.22   |  |
| Columbia          |               |   |   |   |    | T. | T. |     |      | .92  | T.   | .38  | .63  | .15 |     |      | .02 |     |     |     | .16 |     |    |    | T.  |     |    |    |    | T.  |     | 2.26   |  |
| Conway            |               |   |   |   |    |    |    |     |      |      | .50  |      | 1.20 | .15 | .90 | T.   |     |     |     |     |     |     |    |    | T.  |     |    |    |    |     |     | 2.75   |  |
| Darlington        |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Dillon            |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Due West          |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Edisto            |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Edinburgh         |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Enoree            |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Florence          |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Gaffney           |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Georgetown        |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Greenville        |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Greenwood         |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Heath Springs     |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Kingstree(1)      |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Kingstree(2)      |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Liberty           |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Little Mountain   |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Lugoff            |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Newberry          |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Newberry          |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Pelzer            |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Pinopolis         |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| St. Georges       |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| St. Matthew       |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| St. Stephen       |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Saluda            |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Santuc            |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Savannah, Ga.     |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Seivern           |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Smiths Mills      |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Society Hill      |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Spartanburg       |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Stateburg         |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Summerville       |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Sumter            |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Trenton           |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Trenton           |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Trial             |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Walhalla          |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Walterboro        |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Wilmington, N. C. |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Winnboro          |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Winthrop College  |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Yemassee          |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |
| Yorkville         |               |   |   |   |    |    |    |     |      |      |      |      |      |     |     |      |     |     |     |     |     |     |    |    |     |     |    |    |    |     |     |        |  |

T. indicates trace, less than .or inch.



250.05  
7-10-05  
U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR APRIL, 1905.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



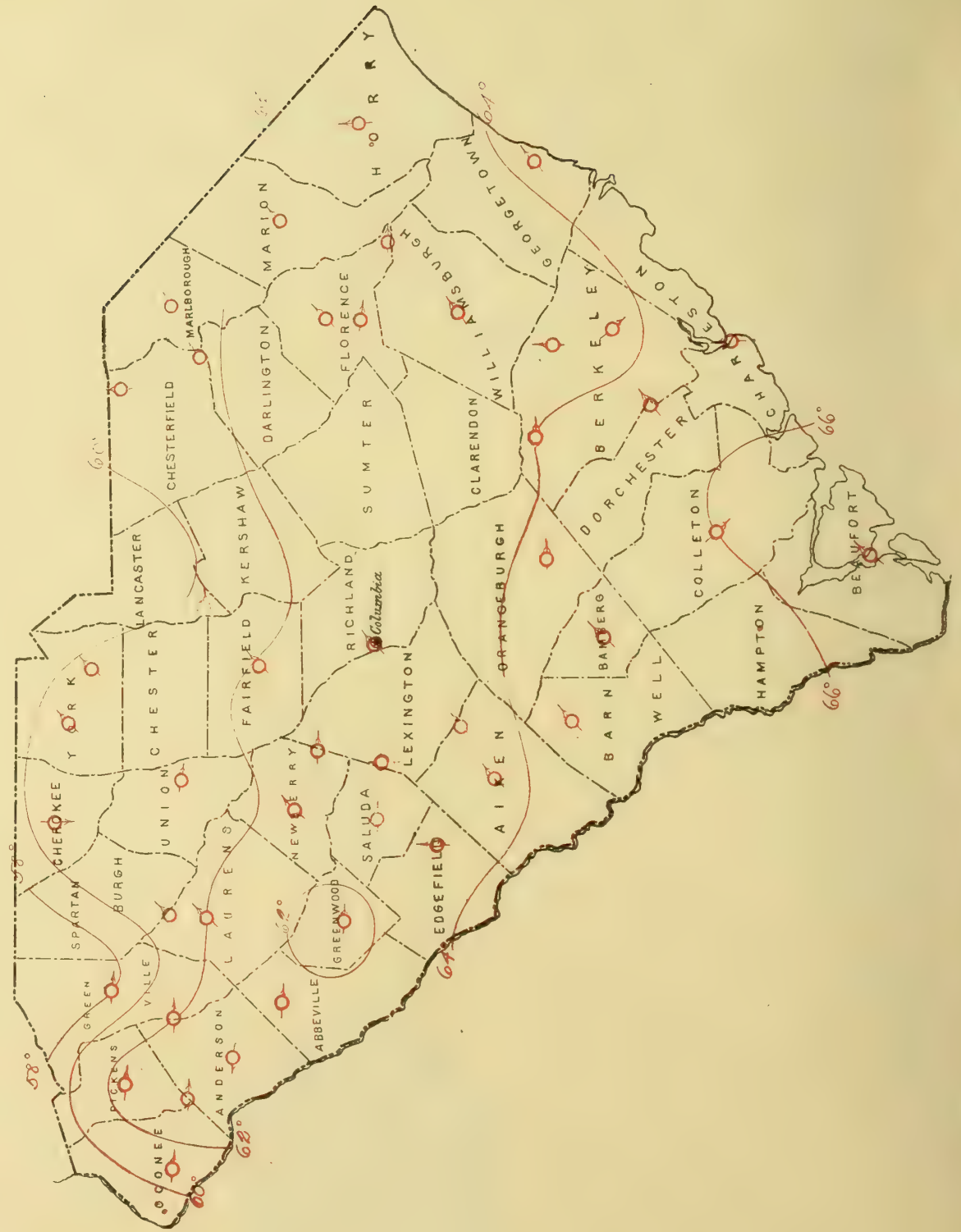
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

MAY 27. 1905



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., APRIL, 1905.

No. 4.

## PROGRESS OF FARM WORK.

The averages of both temperature and precipitation for April are nearly normal, but the month was, in the variability of its weather, quite abnormal. There were two unusually cool periods. The first on the 6th and 7th when snow, rain, sleet and hail as well as killing frost, or light frost, were noted over a large portion of the State. The second from the 16th and 17th, gave usually low temperatures for April, and in many places the lowest on record for the second decade, with the latest killing frost of record. Thin ice was noted to within about twenty miles of the coast, and a heavy ground freeze in the extreme northwestern part.

Over about one-third of the State the precipitation was largely in excess of the normal, but over the other two-thirds was generally below, although there was enough moisture for the needs of germination and growth.

These weather conditions were, in the main, adverse, yet there was not enough interruption to the progress of farm work to make the season of planting materially late, except on lowlands in the sections where precipitation was heaviest.

Corn planting advanced rapidly, and considerable replanting was necessary owing to the ravages of cut worms. Cultivation of corn was begun.

Cotton planting was interrupted by the rains and the cold condition of the soil, yet early plantings came up to fair stands. The frost of the 17th practically killed all cotton that was up, but only a small portion had come up. Later plantings came up to good stands.

The fruit interests suffered severely in the western counties, from the frosts, but were not materially damaging in the central and eastern ones. The commercial peach crop, though less promising than in March, is still good. Truck on the coast farms was not injured, though tender vegetables were largely destroyed in the interior. Tobacco was transplanted and good stands were obtained. Good stands of rice were also the rule. Minor crops grew rapidly after the 20th. The cold periods did no damage to either wheat or oats, and the latter particularly became quite promising.

## CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for April, 1905, was 62.8° which is 0.7° above normal. The highest local mean was 66.4° at Beaufort, the lowest was 57.2° at Greenville. The monthly extremes were a maximum of 92° at Walterboro on the 28th and 29th, and a minimum of 25° at Greenville on the 17th, making the State range 67°. The greatest local monthly range was 61° at Seivern, the least was 46° at Charleston.

The mean of the daily maximum temperatures was 74.5°, and of the daily minimum temperatures was 51.2°, making the average daily range 23.3°.

## Killing Frosts

The last killing frosts of the season, during this month, were reported as follows: On the 16th, Barksdale; 17th, Aiken, Anderson, Batesburg, Bennettsville, Bowman, Cheraw, Clarks Hill, Dillon, Due West, Florence, Gaffney, Greenville, Greenwood, Little Mountain, Pinopolis, Saluda, Spartanburg, Trenton, Trial, Walhalla, Walterboro, Winnsboro, Yorkville; on the 18th, Heath Springs, Newberry, Santuc, Seivern.

The last ice of the season was noted as follows: 16th, Blackville, Georgetown; on the 17th, Bennettsville, Bowman, Clemson College, Columbia, Dillon, Kingstree, Saluda, Spartanburg, Summerville, Trenton, Walhalla.

## Precipitation, in Inches.

The precipitation averaged 3.83 inches which is 0.22 above normal. The greatest local amount was 7.51 at Columbia, the least was 2.00 at Barksdale. The greatest 24-hour fall was 3.59 at Columbia on the 12th-13th. The average number of days with 0.01, or more, precipitation was 9, ranging from 4 at Edisto to 13 at Cheraw.

Excessive precipitation.—Columbia, 12th, 3.47 in 1 hr. 45 mins.; Winnsboro, 15th, 2.54 in 24 hours.

Hail.—Batesburg, 29th; Blackville, 5, 6, 12th; Bowman, Charleston, Little Mountain, Saluda, Spartanburg, 6th; Cheraw, 1st; Darlington, Pinopolis, Society Hill, 5th; Columbia, 21st; Dillon, 5, 6th; Newberry, 6, 9, 29th; Seivern, 30th.

Snow.—Anderson, Newberry, Saluda, Spartanburg, 6th.

Sleet.—Anderson, 17th; Batesburg, 7th.

## Weather.

The average number of clear days was 15, of partly cloudy 8, and of cloudy ones 7.

## Winds.

The prevailing direction of the wind was from the southwest at 20 stations, from the west at 17, from the south at 6, from the north and east at 2 each, and from the northeast and northwest at 1 station each.

High Winds.—Beaufort, 6, 16, 29th; Bowman, 16, 27th; Charleston, 27th; Clarks Hill, 6, 16th; Columbia, 9th; Georgetown, 29th; Heath Springs, 6, 7, 16, 21st; Liberty, 16, 20th; Newberry, 7, 21st; Summerville, 16, 21, 27th; Trial, 6, 16, 17th; Walhalla, 11, 16th; Yorkville, 7, 16th.

## MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Liberty, 17, 25th; Santuc, 25th.

Lunar Halos.—Charleston, 14th; Columbia, 17th; Little Mountain, 11th; Santuc, 12th.

Fogs, Dense.—Barksdale, 4th; Beaufort, Trial, Walterboro, 2nd; Bowman, 25th; Liberty, 15, 22nd; Newberry, Santuc, 15th; Saluda, 10th; Seivern, 4, 25th.

Thunderstorms.—Barksdale, 5, 7, 25, 28th; Beaufort, 5, 10, 11, 12, 15, 21, 22, 26, 29, 30th; Blackville, 5, 6, 12, 22, 26, 29th; Bowman, 5, 6, 27, 29th; Cheraw, 5, 6, 8, 12, 13, 21st; Darlington, 28, 29th; Dillon, 5, 21st; Georgetown, 26, 29th; Liberty, 5, 9, 12, 21, 26, 29th; Little Mountain, Saluda, 5, 6, 9, 11, 12, 21st; Newberry, 4, 5, 6, 9, 11, 12, 21, 26, 29th; Pinopolis, Walterboro, Yemassee, 29th; Santuc, 5, 6, 11, 14, 21, 26, 29th; Seivern, 6, 10, 12, 13, 22, 30th; Society Hill, 5, 9, 26, 28th; Spartanburg, 6th; Summerville, 5, 9, 11, 12, 15, 21, 26, 27, 29th; Trenton, 6, 8, 11, 21, 26, 29th; Trial, 5, 9, 21, 26, 27, 29th; Walhalla, 9, 13th; Winthrop College, 5, 6, 9, 13, 15, 26, 29th; Yorkville, 5, 6, 29th. Summarized, there was a



total of 116 storms reported, distributed throughout the month as follows: 1 on the 4th, 16 on the 5th, 11 on the 6th, 1 on the 7th, 2 on the 8th, 9 on the 9th, 2 on the 10th, 7 on the 11th, 9 on the 12th, 4 on the 13th, 1 on the 14th, 3 on the 15th, 11 on the 21st, 3 on the 22nd, 1 on the 25th, 11 on the 26th, 3 each on the 27th and 28th, 16 on the 29th, and 2 on the 30th.

In addition, Charleston had thunderstorms on the 5, 9, 15, 26, 27, 29th; Columbia on the 5, 6, 9, 12, 21, 26, 29th.

#### ERRATA.

The following corrections should be made in the February, 1905, number: Page 5, Barksdale, total snowfall 4.0 should be 5.2; pages 5 and 8 total precipitation 2.87 should be 3.47. Page 6, Newberry, maximum on 3rd, 32, should be 42, mean maximum 45.8 should be 46.2; Seivern, maximum on 6th, 24, should be 32, minimum on 6th, 32 should be 24, mean maximum 48.4 should be 48.6, mean minimum 27.1 should be 26.5; Summerville, minimum on 5th, 30, should be 26, on the 6th, 36, should be 27, on 9th, 37, should be 33, on 12th, 54, should be 37, mean minimum 35.0 should be 33.8. Page 5, Newberry, mean temperature 37.5 should be 37.7; Seivern, mean temperature 37.6 should be 37.7; Summerville, mean temperature 43.7 should be 43.1. On page 3, under "precipitation in inches", second line change the word "mean" to "amount".

BAROMETER AND WIND TABLE FOR APRIL, 1905.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 29.97      | 30.39    | 24    | 29.38   | 12    | 5,207           | 7.2             | 36                | N.W.       | 6     |
| Charleston.....       | 29.97      | 30.41    | 24    | 29.52   | 13    | 8,267           | 11.5            | 37                | S.         | 27    |
| Charlotte, N. C.....  | 29.96      | 30.46    | 24    | 29.45   | 5     | 5,822           | 8.1             | 36                | W.         | 7     |
| Columbia.....         | 29.95      | 30.45    | 24    | 29.51   | 5     | 5,620           | 7.8             | 36                | S.W.       | 9     |
| Savannah, Ga.....     | 29.98      | 30.37    | 24    | 29.54   | 12    | 6,507           | 9.0             | 32                | W.         | 27    |
| Wilmington, N. C..... | 29.94      | 30.41    | 24    | 29.51   | 5     | 6,775           | 9.4             | 29                | W.         | 7     |
| Averages.....         | 29.96      | 30.46    | 24    | 29.38   | 12    | 6,366           | 8.7             | 37                | S.         | 27    |

#### THE MECHANISM OF BLOOM.

With infinite patience, but with gratifying success, are scientists wrestling the hidden mysteries of nature in its manifestation of plant life, and the following translation of an article in the *Vossische Zeitung*, for *The Literary Digest* is a reasonable explanation of the phenomenon of blooming: "It is plain that there must be some cause which incites a plant to the formation of blossoms after it has produced for a time only stalk and foliage. \* \* Moebius, for instance, calls attention to the significance of light in the formation of blossoms; but more important are the numerous observations that together indicate that when a plant receives plentiful moisture it produces leaves, and that it bears blossoms when the moisture is meager. To this aspect of the question belong not only climatic and meteorological influences, but especially the phenomena that appear when the plant grows in heavy earth, or its roots have been cut down, or in any other way its steady and large absorption of moisture has been hindered. Regularly in this case its formation of blossoms is favored.

"Latterly a distinguished plant physiologist, Oscar Loew, who lives in Japan, has bestowed most assiduous study on this whole question. In the course of his observations he

has given thorough attention to the extraordinary bloom of the Japanese cherry-tree. Despite the abundance of their blossoms, the Japanese cherry-trees do not produce perfect fruit, as peculiar climatic conditions cause the cherries, still in a quite unripe state, to fall from the trees. Loew has ascertained that the nutritive matter which the tree provides to bring its fruit to ripeness ceases to be operative after the unripe cherries have fallen off, and is stored in the form of starch, in the bark. This starch, in the following spring, is transformed into sugar and appears in an unusually large measure in the sap of the tree. To this fact is due the inference that the sugar is the cause of the irritant influence that leads to the formation of blossoms. Conformably to this inference Loew finds, indeed, that all the peculiar phenomena of the formation of blossoms may be traced to an increased proportion of sugar in the sap and thereby explain themselves precisely. Especially is this the case in the blooming of plants caused, as already stated, by decrease in the absorption of moisture, for, evidently, as soon as the quantity of moisture absorbed begins to decline, the concentration of the cellular sap is quickened and the latter's relative proportion of sugar is enlarged."

#### REMARKS BY OBSERVERS.

**BARKSDALE.**—The whole of the cotton crop was planted and some came up. Corn was nipped by the frost, but recovered. The grain crops developed promisingly. **BATESBURG.**—All vegetation was damaged by the frosts of the 7th and 17th, some being killed. Hail did considerable damage on the 29th. Cotton came up to fair stands. **BEAUFORT.**—Mean temperature  $0.5^{\circ}$  above normal; precipitation 0.40 inches in excess. **BENNETTSVILLE.**—The frost of the 17th hurt the fruit crop to some extent. Corn and cotton did well. **BLACKVILLE.**—Ice formed on the 16th. **BOWMAN.**—The damage from the frost of the 17th was confined principally to garden truck; beans and white potatoes suffered most. Peaches are plentiful on trees; apples were injured somewhat. Small grains developed promisingly. **CLARKS HILL.**—Frost of the 17th killed peaches except on elevated lands, leaving half of the commercial crop; foliage of persimmon and sycamore trees was killed; gardens badly damaged. **DILLON.**—The month was warmer and wetter than usual, with only one perfectly clear day. **GREENVILLE.**—Frost on the 7th injured vegetables and fruit slightly. There was a little snow on the 6th. Frost and ice on the 17th killed fruit. **HEATH SPRINGS.**—Weather was favorable and farm work progressed well. Old corn came up to a stand and some was cultivated. Cotton was planted and some came up. Small grain did well. **LIBERTY.**—Variable weather during the entire month. Planting was well advanced; cotton came up rapidly during the last few days which were favorable. Wheat and oats developed normally. There is some fruit left from the frost of the 17th, though the full extent of the damage is not yet known. **LITTLE MOUNTAIN.**—Crop prospects are fine and crops came up to good stands. Fruit was damaged by the cold. Apple and pear trees badly blighted. **NEWBERRY.**—On the afternoon of the 6th there were rain, sleet, hail and snow. On the 9th there were several hailstorms in the county, damaging fruit. **SANTUC.**—The nights were cool and unfavorable to crop growth. Killing frosts on the 17th and 18th, that killed garden truck and cotton in sections. There are many pests on both trees and vegetables. Crops are poor. **SOCIETY HILL.**—Damage from frosts of the 15th and 17th was not serious. The weather was favorable for the germination of cotton, and for transplanting tobacco. The oat crop became promising.



## CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1905.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         | Precipitation—in inches. |                       |        |                            |                       | Sky.                            |                    |                    |                            |                       | Observers. |                            |
|---------------------------------------|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|--------------------------|-----------------------|--------|----------------------------|-----------------------|---------------------------------|--------------------|--------------------|----------------------------|-----------------------|------------|----------------------------|
|                                       |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date.                    | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall—(inches) (feet). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. |            | Prevailing wind and force. |
| Aiken.                                | Aiken.        | 565             | 21                      | 63.7                               | +0.7                       | 90       | 28    | 28      | 17                       | 35                    | 3.20   | +0.04                      | 0.65                  | 0                               | 8                  | 21                 | 6                          | 0                     | sw.        | C. F. McGahan, M. D.       |
| Allendale.                            | Barnwell.     | 186             | 17                      | 62.0                               | +2.5                       | 80       | *22   | 35      | *16                      | 32                    | 3.88   | +1.03                      | 0.83                  | T.                              | 6                  | 23                 | 0                          | 0                     | sw.        | C. A. Glover.              |
| Anderson.                             | Anderson.     | 764             | 4                       | 62.8                               | +2.7                       | 87       | 28    | 30      | 17                       | 39                    | 3.91   | +0.45                      | 1.26                  | 0                               | 10                 | 15                 | 2                          | 0                     | sw.        | H. H. Russell.             |
| Augusta, Ga.                          | Richmond.     | 134             | 34                      | 61.4                               | +0.2                       | 88       | 28    | 34      | 17                       | 35                    | 4.50   | +1.10                      | 1.07                  | 0                               | 13                 | 10                 | 15                         | 0                     | sw.        | W. H. Russell.             |
| Barksdale.                            | Laurens.      | 780             | 4                       | 62.0                               | .....                      | 82       | 16    | 28      | 17                       | 33                    | 2.00   | +0.75                      | 0.75                  | 0                               | 7                  | 11                 | 18                         | 0                     | sw.        | J. T. Gafford.             |
| Batesburg.                            | Lexington.    | 656             | 17                      | 63.4                               | +0.0                       | 86       | *28   | 31      | 17                       | 35                    | 5.02   | +1.97                      | 1.54                  | T.                              | 10                 | 15                 | 5                          | 10                    | sw.        | E. J. Hite.                |
| Beaufort.                             | Beaufort.     | 28              | 19                      | 66.4                               | +0.5                       | 86       | 30    | 39      | 17                       | 21                    | 2.60   | +0.40                      | 1.40                  | 0                               | 11                 | 15                 | 11                         | 1                     | sw.        | S. M. Benton.              |
| Bennettsville.                        | Marlboro.     | .....           | 4                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 2.79   | .....                      | 1.05                  | 0                               | 7                  | 21                 | 6                          | 1                     | sw.        | Jno. L. McCall.            |
| Blackville.                           | Barnwell.     | 206             | 17                      | 65.2                               | +1.1                       | 89       | 29    | 29      | 17                       | 39                    | 4.01   | +0.41                      | 1.41                  | 0                               | 9                  | 14                 | 15                         | 1                     | sw.        | G. D. C. Lange.            |
| Bowman.                               | Orangeburg.   | 160             | 4                       | 64.8                               | .....                      | 90       | 29    | 30      | 17                       | 40                    | 4.59   | .....                      | 1.40                  | 0                               | 9                  | 17                 | 12                         | 1                     | sw.        | B. O. Evans.               |
| Calhoun Falls.                        | Abbeville.    | 508             | 12                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 3.79   | .....                      | 1.46                  | 0                               | 8                  | 17                 | 2                          | 6                     | sw.        | P. J. Pfeiffer.            |
| Camden.                               | Kershaw.      | 222             | 39                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 3.79   | .....                      | 1.46                  | 0                               | 8                  | 17                 | 2                          | 6                     | sw.        | J. C. Whitaker.            |
| Charleston.                           | Charleston.   | 48              | 36                      | 65.8                               | +1.2                       | 85       | 29    | 39      | 17                       | 24                    | 2.30   | +1.28                      | 0.81                  | 0                               | 7                  | 14                 | 12                         | 4                     | sw.        | Weather Bureau.            |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 27                      | 60.2                               | +0.9                       | 82       | 1     | 33      | 17                       | 33                    | 2.72   | +0.82                      | 0.90                  | 0                               | 11                 | 10                 | 15                         | 5                     | sw.        | Weather Bureau.            |
| Cheraw (1).                           | Chesterfield. | 141             | 17                      | 61.2                               | +0.4                       | 87       | 29    | 32      | 17                       | 37                    | 4.44   | +1.17                      | 1.50                  | 0                               | 11                 | 11                 | 8                          | 11                    | sw.        | W. R. Godfrey.             |
| Cheraw (2).                           | .....         | 141             | 12                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 5.40   | +1.64                      | 2.38                  | 0                               | 13                 | 18                 | 6                          | 6                     | sw.        | Jno. H. Powe.              |
| Clark's Hill.                         | Edgefield.    | 456             | 3                       | 64.0                               | .....                      | 89       | 28    | 30      | 17                       | 35                    | 2.16   | .....                      | 0.44                  | 0                               | 9                  | 6                  | 8                          | 16                    | sw.        | Wm. S. Middleton.          |
| Clemson College.                      | Oconee.       | 850             | 14                      | 62.0                               | +2.8                       | 83       | 29    | 30      | 17                       | 32                    | 2.79   | +1.11                      | 1.11                  | 0                               | 8                  | 18                 | 4                          | 8                     | sw.        | Jno. N. Hook.              |
| Columbia College.                     | Richland.     | 351             | 18                      | 63.6                               | 0.0                        | 85       | 28    | 32      | 17                       | 25                    | 7.51   | +4.73                      | 3.59                  | 0                               | 10                 | 8                  | 16                         | 6                     | sw.        | Central Office.            |
| Conway.                               | Horry.        | 25              | 14                      | 62.6                               | .....                      | 90       | 29    | 30      | 17                       | 39                    | 7.40   | +1.05                      | 1.85                  | 0                               | 12                 | 18                 | 1                          | 11                    | sw.        | McQ. Quantelmann.          |
| Darlington.                           | Darlington.   | 175             | 10                      | 62.3                               | .....                      | 88       | 29    | 31      | 18                       | 38                    | 6.08   | +1.74                      | 1.33                  | 0                               | 11                 | 6                  | 20                         | 3                     | sw.        | Robt. E. James.            |
| Dillon.                               | Marion.       | 100             | 1                       | 62.2                               | .....                      | 90       | 29    | 30      | 16                       | 38                    | 4.78   | .....                      | 1.16                  | 0                               | 12                 | 13                 | 10                         | 5                     | sw.        | A. E. Rowell.              |
| Due West.                             | Abbeville.    | 740             | 4                       | 62.6                               | .....                      | 82       | 29    | 31      | 17                       | 32                    | 4.05   | .....                      | 1.06                  | 0                               | 7                  | 11                 | 5                          | 14                    | sw.        | Rev. O. Y. Bonner.         |
| Edisto.                               | Bamberg.      | 127             | 12                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 2.92   | +0.89                      | 1.10                  | 0                               | 4                  | 17                 | 6                          | 7                     | sw.        | Mrs. M. Thompson.          |
| Effingham.                            | Florence.     | 106             | 13                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 7.20   | +4.22                      | 2.10                  | 0                               | 9                  | 20                 | 0                          | 10                    | sw.        | H. B. McCall.              |
| Enoree.                               | Spartanburg.  | 937             | 0                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 2.23   | .....                      | 0.85                  | 0                               | 7                  | 11                 | 6                          | 10                    | sw.        | E. P. Porter.              |
| Florence.                             | Florence.     | 136             | 17                      | 62.4                               | +0.6                       | 88       | 29    | 34      | 17                       | 12                    | 4.26   | +0.95                      | 0.84                  | 0                               | 10                 | 16                 | 3                          | 11                    | sw.        | H. K. Gilbert.             |
| Gaffney.                              | Cherokee.     | 893             | 9                       | 61.5                               | .....                      | 86       | 2     | 30      | 17                       | 47                    | 2.10   | +3.70                      | 0.55                  | 0                               | 9                  | 17                 | 5                          | 8                     | sw.        | B. F. Camp.                |
| Georgetown.                           | Georgetown.   | 12              | 12                      | 64.2                               | +1.2                       | 85       | 28    | 36      | 16                       | 27                    | 5.09   | +1.77                      | 1.38                  | 0                               | 9                  | 10                 | 10                         | 9                     | sw.        | Reid Whitford.             |
| Greenville.                           | Greenville.   | 989             | 13                      | 57.2                               | +0.5                       | 82       | 28    | 25      | 17                       | 43                    | 2.38   | +2.03                      | 0.62                  | T.                              | 8                  | 17                 | 2                          | 11                    | sw.        | Mrs. S. A. Crittenden.     |
| Greenwood.                            | Greenwood.    | 671             | 17                      | 61.8                               | +0.7                       | 85       | 28    | 31      | 17                       | 10                    | 2.03   | +0.98                      | 0.70                  | 0                               | 9                  | 16                 | 0                          | 14                    | sw.        | M. M. Calhoun.             |
| Heath Springs.                        | Laurens.      | .....           | 4                       | 59.7                               | .....                      | 83       | 22    | 28      | 17                       | 35                    | 4.23   | .....                      | 1.46                  | 0                               | 9                  | 17                 | 8                          | 5                     | sw.        | J. A. Weaver.              |
| Kingstree (1).                        | Williamsburg. | 54              | 17                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 3.37   | +0.17                      | 0.98                  | 0                               | 6                  | 17                 | 1                          | 9                     | sw.        | J. A. Scott.               |
| Kingstree (2).                        | .....         | 54              | 11                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 3.72   | +0.60                      | 1.30                  | 0                               | 10                 | 8                  | 13                         | 9                     | sw.        | A. O. Matthews.            |
| Liberty.                              | Pickens.      | 900             | 11                      | 62.8                               | +2.8                       | 86       | 28    | 31      | 17                       | 41                    | 3.72   | +0.60                      | 1.30                  | 0                               | 10                 | 8                  | 13                         | 9                     | sw.        | Jno. T. Boggs.             |
| Little Mountain.                      | Newberry.     | 711             | 12                      | 63.6                               | +1.4                       | 83       | *21   | 31      | 17                       | 30                    | 3.99   | +0.44                      | 0.75                  | 0                               | 11                 | 12                 | 12                         | 6                     | sw.        | John M. Sease, M. D.       |
| Lugoff.                               | Kershaw.      | 168             | 4                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 3.93   | +0.49                      | 1.24                  | T.                              | 11                 | 5                  | 17                         | 8                     | sw.        | W. J. Burdell, M. D.       |
| Newberry.                             | Newberry.     | 502             | 1                       | 62.0                               | +0.6                       | 89       | 28    | 29      | *17                      | 43                    | 3.93   | +0.49                      | 1.24                  | T.                              | 11                 | 5                  | 17                         | 8                     | sw.        | W. G. Peterson.            |
| Pelzer.                               | Anderson.     | 873             | 0                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 2.74   | .....                      | 1.45                  | 0                               | 10                 | 20                 | 3                          | 7                     | sw.        | John M. Ward.              |
| Pinopolis.                            | Berkeley.     | 54              | 12                      | 61.8                               | +0.2                       | 84       | 20    | 35      | 17                       | 34                    | 3.25   | +0.26                      | 1.45                  | 0                               | 7                  | 16                 | 9                          | 5                     | sw.        | E. P. Ravenel.             |
| St. Georges.                          | Dorchester.   | 109             | 17                      | 63.9                               | +0.3                       | 80       | *28   | 34      | 17                       | 34                    | 3.25   | +0.26                      | 1.45                  | 0                               | 7                  | 16                 | 9                          | 5                     | sw.        | W. B. Rayson.              |
| St. Matthew.                          | Orangeburg.   | 269             | 17                      | 62.4                               | +1.6                       | 85       | 29    | 35      | *6                       | 39                    | 3.41   | +0.21                      | 1.63                  | 0                               | 6                  | 23                 | 0                          | 7                     | sw.        | J. S. Warramaker.          |
| St. Stephen.                          | Berkeley.     | 73              | 13                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 2.30   | +0.48                      | 0.50                  | 0                               | 10                 | 22                 | 2                          | 6                     | sw.        | C. T. Shuler.              |
| Saluda.                               | Saluda.       | 536             | 4                       | 63.4                               | .....                      | 87       | 28    | 27      | 17                       | 41                    | 3.98   | .....                      | 0.95                  | T.                              | 11                 | 17                 | 5                          | 8                     | sw.        | Alvin Etheridge.           |
| Santee.                               | Union.        | 512             | 12                      | 61.8                               | +2.2                       | 84       | 1     | 40      | 17                       | 26                    | 3.29   | +0.71                      | 0.95                  | 0                               | 11                 | 10                 | 10                         | 10                    | sw.        | E. W. Jeter.               |
| Savannah, Ga.                         | Chatham.      | 71              | 36                      | 67.0                               | +0.9                       | 90       | 29    | 40      | 17                       | 26                    | 1.29   | +2.18                      | 0.52                  | 0                               | 9                  | 8                  | 12                         | 10                    | sw.        | Weather Bureau.            |
| Seivern.                              | Aiken.        | 482             | 4                       | 62.0                               | +2.1                       | 89       | 29    | 28      | 17                       | 41                    | 5.52   | +1.17                      | 1.46                  | T.                              | 11                 | 15                 | 4                          | 11                    | sw.        | Geo. C. Gunter.            |
| Smiths Mills.                         | Williamsburg. | 62              | 10                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 4.38   | +0.36                      | 1.40                  | 0                               | 9                  | 22                 | 0                          | 8                     | sw.        | H. van Keulen.             |
| Society Hill.                         | Darlington.   | 192             | 14                      | 61.4                               | +0.9                       | 87       | 29    | 35      | *16                      | 28                    | 4.21   | +0.02                      | 1.09                  | 0                               | 11                 | 15                 | 10                         | 5                     | sw.        | J. J. Lucas.               |
| Spartanburg.                          | Spartanburg.  | 875             | 14                      | 61.4                               | +1.0                       | 86       | *1    | 31      | 17                       | 44                    | 2.82   | +1.31                      | 0.60                  | T.                              | 11                 | 14                 | 4                          | 12                    | sw.        | F. P. Robinson.            |
| Stateburg.                            | Sumter.       | 500             | 28                      | 64.2                               | +1.4                       | 85       | 29    | 32      | 17                       | 38                    | 4.22   | +1.13                      | 1.41                  | 0                               | 9                  | 11                 | 6                          | 13                    | sw.        | W. W. Anderson, M. D.      |
| Summerville.                          | Dorchester.   | 75              | 8                       | 64.1                               | +1.5                       | 88       | 29    | 33      | 17                       | 38                    | 3.95   | +1.10                      | 1.23                  | 0                               | 10                 | 12                 | 13                         | 5                     | sw.        | Miss E. H. Gadsden.        |
| Sumter.                               | Sumter.       | 169             | 4                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 4.20   | +0.07                      | 1.65                  | 0                               | 9                  | 13                 | 15                         | 2                     | sw.        | Wm. D. Shaw.               |
| + Trenton.                            | Edgefield.    | 620             | 12                      | 63.0                               | +1.7                       | 87       | 29    | 31      | 17                       | 35                    | 4.20   | +0.07                      | 1.65                  | 0                               | 9                  | 13                 | 15                         | 2                     | sw.        | C. A. Long.                |
| Trial.                                | Berkeley.     | 85              | 19                      | 64.0                               | +2.1                       | 88       | 29    | 30      | 17                       | 40                    | 3.89   | +1.32                      | 1.56                  | 0                               | 8                  | 7                  | 16                         | 7                     | sw.        | Etsell Gaillard.           |
| Walhalla.                             | Oconee.       | 1061            | 14                      | 60.4                               | +0.9                       | 85       | 28    | 28      | 17                       | 38                    | 2.92   | +2.78                      | 0.65                  | 0                               | 10                 | 11                 | 13                         | 6                     | sw.        | J. D. Isbell.              |
| Walterboro.                           | Colleton.     | .....           | 2                       | 66.8                               | .....                      | 92       | *28   | 33      | 17                       | 43                    | 3.75   | .....                      | 1.24                  | 0                               | 8                  | 10                 | 8                          | 3                     | sw.        | J. A. Westerberg.          |
| Wilmington, N. C.                     | New Hanover.  | 52              | 36                      | 61.0                               | +0.5                       | 83       | 29    | 30      | 17                       | 31                    | 4.80   | +1.84                      | 1.35                  | 0                               | 9                  | 11                 | 15                         | 4                     | sw.        | Weather Bureau.            |
| Winnsboro.                            | Fairfield.    | 515             | 16                      | 62.6                               | +1.4                       | 83       | *28   | 32      | 17                       | 31                    | 7.03   | +4.10                      | 2.54                  | 0                               | 8                  | 14                 | 15                         | 1                     | sw.        | John W. Seigler.           |
| Winthrop College.                     | York.         | 690             | 6                       | 61.7                               | +0.3                       | 83       | 1     | 30      | 17                       | 36                    | 2.83   | +0.53                      | 0.80                  | 0                               | 11                 | 17                 | 11                         | 2                     | sw.        | Geo. B. Green.             |
| Yemassee.                             | Beaufort.     | 23              | 10                      | 65.5                               | .....                      | 90       | 29    | 33      | 17                       | 32                    | 3.75   | .....                      | 0.89                  | 0                               | 10                 | 16                 | 7                          | 7                     | sw.        | J. G. Hutson.              |
| Yorkville.                            | York.         | 680             | 17                      | 63.1                               | +1.5                       | 86       | 1     | 31      | 17                       | 37                    | 2.53   | +1.25                      | 0.74                  | 0                               | 8                  | 7                  | 11                         | 12                    | sw.        | J. R. Schorb.              |
| MEANS—highest, lowest and dates, etc. | .....         | .....           | .....                   | 62.8                               | +0.7                       | 92       | *28   | 25      | 17                       | 47                    | 3.53   | +0.22                      | 3.59                  | T.                              | 9                  | 15                 | 8                          | 7                     | sw.        | .....                      |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.

SPARTANBURG.—At about 5 p. m. of the 6th there were thunder, lightning, sleet, rain, snow and sunshine in the short space of from 5 to 10 minutes. SUMMERVILLE.—Wind storm with rain on the 6th; no damage. Frost occurred twice this month; ice was noted in the vicinity on the 17th. TRENTON.—The frost of the 17th did damage to corn, beans, white potatoes, and cotton that was up. The heavy rain of the 29th damaged lands and crops severely.



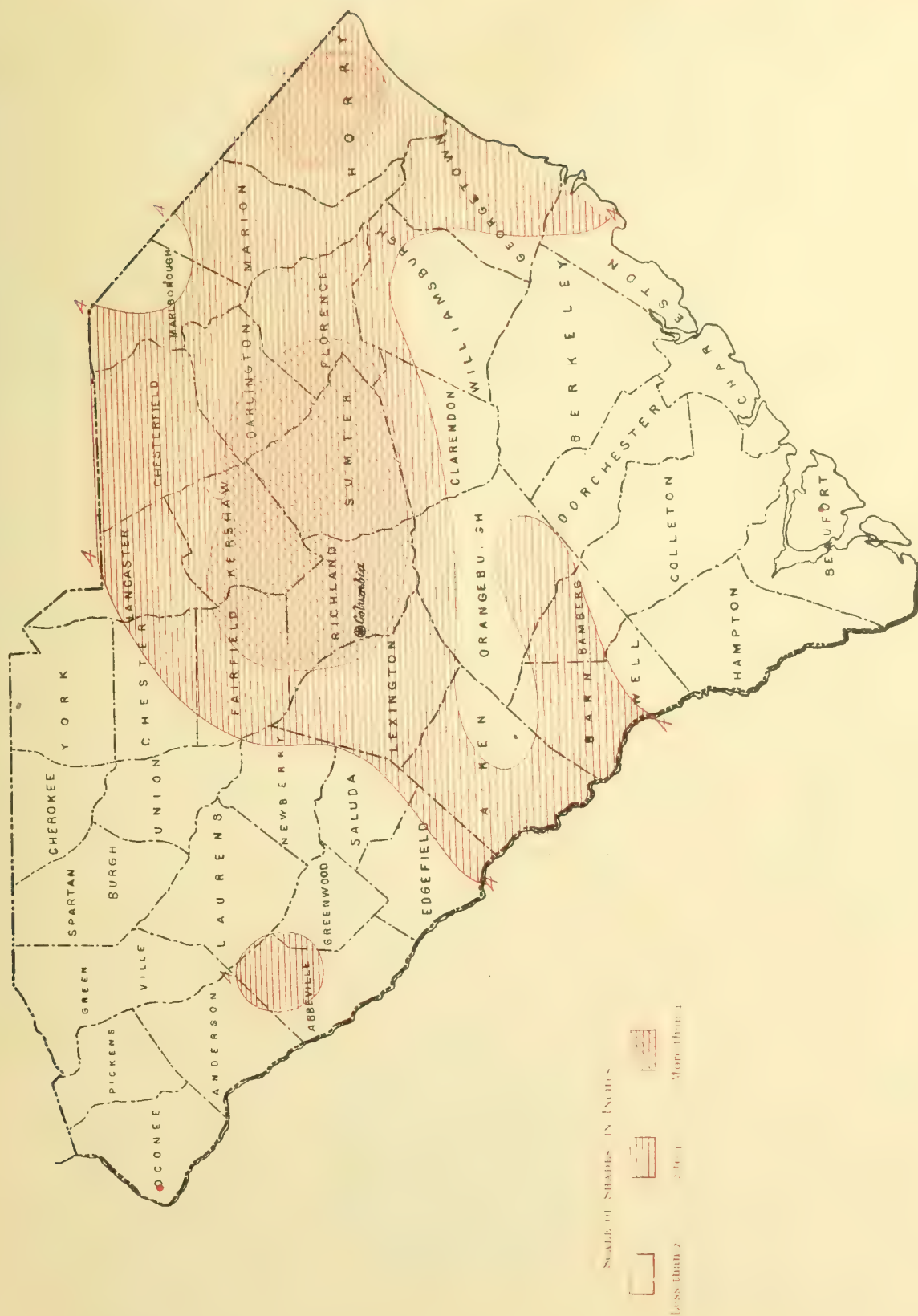
## STATIONS.

| STATIONS.    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Monthly mean. |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |    |      |      |    |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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| Alken        | 85 | 48 | 85 | 51 | 80 | 55 | 81 | 57 | 73 | 58 | 64 | 60 | 62 | 32 | 77 | 44 | 81 | 52 | 81 | 51 | 81 | 57 | 75 | 51 | 78 | 57 | 63 | 59 | 59 | 37 | 60            | 28   | 63 | 37 | 77 | 43 | 84 | 59 | 87 | 56 | 83 | 57 | 73 | 56 | 79 | 49 | 75 | 52 | 81 | 57 | 82 | 57   | 89   | 55   | 80 | 63   | 79   | 58 | 76.9 | 50.5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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| Alendale*    | 65 | 43 | 68 | 47 | 72 | 45 | 64 | 53 | 60 | 54 | 35 | 62 | 37 | 68 | 40 | 70 | 42 | 71 | 59 | 70 | 62 | 58 | 65 | 68 | 53 | 63 | 59 | 63 | 58 | 65 | 32            | 69   | 65 | 32 | 72 | 40 | 80 | 49 | 86 | 60 | 90 | 62 | 78 | 50 | 75 | 52 | 83 | 59 | 82 | 67 | 80 | 64   | 72.2 | 51.8 |    |      |      |    |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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| Anderson     | 84 | 45 | 82 | 49 | 78 | 52 | 76 | 58 | 72 | 55 | 40 | 66 | 38 | 75 | 44 | 74 | 54 | 83 | 51 | 77 | 59 | 75 | 51 | 77 | 57 | 70 | 53 | 76 | 41 | 60 | 30            | 66   | 36 | 71 | 41 | 81 | 57 | 81 | 57 | 83 | 58 | 74 | 56 | 77 | 48 | 73 | 53 | 79 | 49 | 76 | 50 | 74.6 | 50.9 |      |    |      |      |    |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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| Augusta, Ga. | 82 | 47 | 85 | 50 | 79 | 56 | 80 | 55 | 74 | 59 | 65 | 40 | 68 | 75 | 51 | 78 | 58 | 70 | 53 | 81 | 59 | 75 | 53 | 74 | 77 | 61 | 65 | 53 | 76 | 41 | 60            | 30   | 66 | 36 | 71 | 41 | 81 | 57 | 81 | 57 | 83 | 58 | 74 | 56 | 77 | 48 | 73 | 53 | 79 | 49 | 76 | 50   | 74.5 | 50.3 |    |      |      |    |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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| Barksdale    | 79 | 57 | 76 | 58 | 75 | 66 | 70 | 50 | 66 | 42 | 63 | 33 | 72 | 42 | 75 | 47 | 82 | 45 | 80 | 60 | 70 | 66 | 70 | 60 | 76 | 59 | 73 | 49 | 60 | 40 | 58            | 28   | 65 | 34 | 68 | 45 | 80 | 48 | 58 | 73 | 56 | 79 | 55 | 74 | 54 | 73 | 56 | 70 | 50 | 78 | 53 | 81   | 60   | 78   | 53 | 73.7 | 50.3 |    |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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| Batesburg*   | 80 | 47 | 85 | 50 | 83 | 54 | 78 | 55 | 74 | 54 | 49 | 66 | 34 | 77 | 50 | 78 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60            | 40   | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50   | 37   | 60   | 40 | 58   | 31   | 67 | 46   | 80   | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 | 83 | 79 | 57 | 78 | 53 | 79 | 57 | 72 | 64 | 55 | 54 | 50 | 37 | 60 | 40 | 58 | 31 | 67 | 46 | 80 | 50 | 81 | 54 |

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.



# TOTAL PRECIPITATION FOR APRIL, 1905.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1905.

| STATIONS.         | Day of Month. |     |     |      |      |     |     |     |     |     |      |      |      |      |     |     |    |    |    |    |     |      |     |     |     |      |      |     |     |      |     |  |  |
|-------------------|---------------|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|----|----|----|----|-----|------|-----|-----|-----|------|------|-----|-----|------|-----|--|--|
|                   | 1             | 2   | 3   | 4    | 5    | 6   | 7   | 8   | 9   | 10  | 11   | 12   | 13   | 14   | 15  | 16  | 17 | 18 | 19 | 20 | 21  | 22   | 23  | 24  | 25  | 26   | 27   | 28  | 29  | 30   | 31  |  |  |
| Aiken             |               |     |     |      | .40  | .10 |     |     | .60 |     |      | .30  |      |      | .20 |     |    |    |    |    | .45 |      |     |     |     | .50  |      |     | .65 |      |     |  |  |
| Allendale         |               |     |     |      | .72  |     |     |     |     |     |      | .45  |      |      | .10 |     |    |    |    |    |     | .53  |     |     |     | .35  |      |     |     | .83  |     |  |  |
| Anderson          |               |     |     | .66  | .16  | .08 |     |     | .12 |     | .06  |      | 1.26 |      | .15 |     |    |    |    |    |     | .24  |     |     |     | .35  |      |     |     | .83  |     |  |  |
| Augusta, Ga.      |               |     |     | .01  | .25  | .16 |     |     | .85 |     | .01  | 1.03 | .04  |      | .07 |     |    |    |    |    |     | .21  | .94 | .07 |     |      |      |     |     | .49  |     |  |  |
| Barksdale         |               |     |     | .73  |      | T.  |     |     | .14 |     |      |      | .41  | .12  |     |     |    |    |    |    |     |      |     |     |     | .16  | T.   |     |     | .28  |     |  |  |
| Batesburg         |               |     |     | .37  | .07  | .05 |     |     | .01 |     |      | 1.54 |      |      | .22 |     |    |    |    |    |     | .09  |     |     |     | .35  | .00  |     |     | .28  |     |  |  |
| Beaufort          |               | .02 |     |      | .25  | T.  |     | T.  | .02 | .08 |      | .12  | 1.40 | T.   | .29 |     |    |    |    |    |     |      |     |     | .15 | .08  |      |     |     | 1.33 |     |  |  |
| Bennettsville     |               |     |     | .32  | .20  |     |     |     |     |     |      |      |      |      | .21 |     |    |    |    |    |     | .26  |     |     |     | 1.05 | .50  |     |     | .15  |     |  |  |
| Blackville        |               |     |     | .39  | .22  | .06 |     |     | .22 |     |      |      | .12  |      |     |     |    |    |    |    |     | .69  | .42 |     |     | .37  | .14  |     |     | .41  |     |  |  |
| Bowman            |               |     |     | .66  | .14  |     |     |     | .52 |     |      |      | .80  |      | .03 |     |    |    |    |    |     | .60  |     |     |     | 1.40 | .32  |     |     | .12  |     |  |  |
| Calhoun Falls     |               |     |     |      |      |     |     |     |     |     |      |      |      |      |     |     |    |    |    |    |     |      |     |     |     |      |      |     |     |      |     |  |  |
| Camden            |               |     |     | .14  |      |     |     |     | .20 |     |      | 1.46 |      |      | .22 |     |    |    |    |    |     | .27  |     |     |     | .83  | .42  |     |     | .25  |     |  |  |
| Charleston        |               |     |     | .27  |      | T.  |     |     |     |     | .02  | .07  |      | .75  |     |     |    |    |    |    |     | T.   |     |     |     | .18  | .20  |     |     |      |     |  |  |
| Charlotte, N. C.  |               |     | .03 | .90  | .12  |     |     |     | .10 | T.  | T.   | .18  | .33  | .02  | .38 |     |    |    |    |    |     | T.   |     |     |     | .52  | .07  | .07 |     |      |     |  |  |
| Cheraw(1)         |               |     |     | .15  | .20  |     |     |     | .10 |     |      | 1.50 | .29  |      | .26 |     |    |    |    |    |     |      |     |     |     | .18  | .75  | .11 |     | .11  |     |  |  |
| Cheraw(2)         |               |     |     | .14  | .18  |     |     |     | .10 | .01 |      | .02  | 2.38 | .28  | T.  | .26 |    |    |    |    |     | 1.05 |     |     |     | .20  | .61  | .11 |     | T.   | .12 |  |  |
| Clark's Hill      |               |     |     | .40  | .07  |     |     |     | .19 |     | T.   | .18  | .44  | .27  |     |     |    |    |    |    |     | .02  |     |     |     | T.   | .35  |     |     | .24  |     |  |  |
| Clemson College   |               |     |     | .62  |      |     |     |     | .18 |     |      | .15  |      | .15  |     |     |    |    |    |    |     | .09  |     |     |     | .11  | .04  |     |     | .45  |     |  |  |
| Columbia          |               |     |     | .54  | .01  |     |     |     | .18 |     | .06  | .51  | .05  | T.   | .36 |     |    |    |    |    |     | 1.06 |     |     |     | .01  | T.   |     |     | .80  |     |  |  |
| Conway            |               |     |     | 1.10 | .25  | .20 |     |     | .55 |     | .10  | 1.15 | .35  | .25  | .65 |     |    |    |    |    |     |      |     |     |     | .05  | 1.85 |     |     | T.   | .50 |  |  |
| Darlington        |               |     |     | .67  | .05  |     |     |     | .06 | .03 |      | .57  | .15  | .31  |     |     |    |    |    |    |     |      |     |     |     | 1.33 | 1.00 |     |     | 1.15 |     |  |  |
| Dillon            |               |     |     | .87  | .12  |     |     |     | .10 |     |      | .64  | .12  | .32  | .23 |     |    |    |    |    |     | .32  | .17 |     |     | 1.10 | .20  |     |     | .53  |     |  |  |
| Due West          |               |     |     | 1.01 |      |     |     |     | .35 |     |      | .72  |      | .25  |     |     |    |    |    |    |     | .40  |     |     |     | .26  |      |     |     | 1.06 |     |  |  |
| Edisto            |               |     |     | .37  |      |     |     |     |     |     |      | .60  |      |      |     |     |    |    |    |    |     | .55  | T.  |     |     | T.   | 2.10 |     |     |      |     |  |  |
| Effingham         |               |     |     | .10  | .70  | .60 |     |     | T.  | .50 |      | .70  | .60  |      | .10 |     |    |    |    |    |     | 1.50 |     |     |     | T.   | .31  | .20 |     | .09  |     |  |  |
| Enoree            |               |     |     | .54  | .11  |     |     |     |     |     |      | .85  |      | .15  |     |     |    |    |    |    |     |      |     |     |     | .20  | 1.84 |     |     | .50  |     |  |  |
| Florence          |               |     |     | .10  | .58  | .10 |     |     | .16 |     |      | .08  |      | .15  |     |     |    |    |    |    |     | .55  |     |     |     | .30  | .15  |     |     | .32  | .08 |  |  |
| Gaffney           |               |     |     | .55  | .30  |     |     |     | .20 |     |      | .10  | .10  |      |     |     |    |    |    |    |     |      |     |     |     | .20  | 1.84 |     |     | .50  |     |  |  |
| Georgetown        |               |     |     | 1.38 |      |     |     |     | .14 |     | .02  | .62  | .17  |      | .40 |     |    |    |    |    |     | T.   |     |     |     | 1.14 |      |     |     | 1.18 | .04 |  |  |
| Greenville        |               |     |     | .62  | .25  |     |     |     | .35 |     |      |      |      |      |     |     |    |    |    |    |     |      |     |     |     | .39  | .22  |     |     | .10  | .30 |  |  |
| Greenwood         |               |     |     | .70  | .07  |     |     |     |     |     |      | .15  |      |      | .20 |     |    |    |    |    |     |      |     |     |     | .60  | .20  |     |     | .19  |     |  |  |
| Heath Springs     |               |     |     | T.   | 1.46 | .01 |     |     | .07 | .02 | 1.22 | .01  |      | .32  |     |     |    |    |    |    |     | .18  |     |     |     | 1.04 |      |     |     |      |     |  |  |
| Kings-tree(1)     |               |     |     |      |      |     |     |     |     |     |      |      |      |      |     |     |    |    |    |    |     |      |     |     |     |      |      |     |     |      |     |  |  |
| Kings-tree(2)     |               |     |     | .25  | .04  | T.  |     |     | .50 |     |      | .90  |      |      |     |     |    |    |    |    |     |      |     |     |     | T.   | .98  |     |     | .70  |     |  |  |
| Liberty           |               |     |     | T.   | .80  | .10 |     | .05 | .02 |     | T.   | 1.30 |      | .25  |     |     |    |    |    |    | T.  | .20  |     |     |     | .58  | .22  | .20 |     |      |     |  |  |
| Little Mountain   |               |     |     | .74  | .07  |     |     |     | .16 |     | .27  | .75  | .21  |      | .20 |     |    |    |    |    |     | .21  |     |     |     | .74  | .21  |     |     | .43  | T.  |  |  |
| Lugoff            |               |     |     |      |      |     |     |     |     |     |      |      |      |      |     |     |    |    |    |    |     |      |     |     |     |      |      |     |     |      |     |  |  |
| Newberry          |               |     |     | .26  | .05  | .22 |     |     | .54 |     | .15  | 1.24 |      | .17  |     |     |    |    |    |    |     | .20  |     |     |     | .51  | .22  | T.  |     | .37  |     |  |  |
| Pelzer            |               |     |     | .65  | .30  |     |     |     | .18 |     |      | .04  |      | .17  |     | .15 |    |    |    |    |     |      |     |     |     | .18  | .21  |     |     | .37  |     |  |  |
| Pinopolis         |               |     |     | .70  |      |     |     |     | .11 |     |      | .57  |      | .30  |     |     |    |    |    |    |     |      |     |     |     | 1.45 | .09  |     |     | .43  |     |  |  |
| St. Georges       |               |     |     | .20  |      |     |     |     |     |     |      | .25  |      |      |     |     |    |    |    |    |     |      |     |     |     | .15  |      |     |     |      |     |  |  |
| St. Matthew       |               |     |     | .50  |      |     |     |     | .20 |     |      | .18  |      |      |     |     |    |    |    |    |     |      |     |     |     | .75  |      |     |     | 1.63 |     |  |  |
| St. Stephen       |               |     |     | .15  | .10  | .01 |     |     | .23 |     |      | .50  |      |      |     |     |    |    |    |    |     |      |     |     |     | .11  | .32  | .15 |     | .55  |     |  |  |
| Saluda            |               |     |     | .40  | T.   |     |     |     | .27 |     | .44  | .21  | .47  |      | .32 |     |    |    |    |    |     | .32  |     |     |     | .47  | .11  |     |     | .95  | .02 |  |  |
| Santee            |               |     |     | .57  | .03  |     |     |     | .17 |     | .06  | .79  | .02  | .15  |     |     |    |    |    |    |     | .10  |     |     |     | .94  | .01  |     |     | .45  |     |  |  |
| Savannah, Ga.     |               |     |     | T.   | .29  |     |     |     | T.  | T.  | .02  | .07  | .03  | T.   | .52 |     |    |    |    |    |     | .04  | .04 |     |     | .21  |      |     |     | .07  |     |  |  |
| Severn            |               |     |     | .60  | .14  | .18 |     |     | .33 |     | .01  | 1.46 |      |      | .31 |     |    |    |    |    |     | .60  |     |     |     | T.   | .69  | .03 | T.  | 1.14 |     |  |  |
| Smiths Mills      |               |     |     | .18  | .50  | T.  |     |     | .25 |     |      | .85  | .10  | T.   | .70 |     |    |    |    |    |     |      |     |     |     | T.   | 1.40 |     |     | T.   | .40 |  |  |
| Society Hill      |               |     |     | .30  | .17  |     |     |     |     |     |      | .35  |      | .45  |     |     |    |    |    |    |     | 1.09 |     |     |     | .30  | .66  | .07 | .04 | .28  |     |  |  |
| Spartanburg       |               |     |     | .60  |      | .15 | .10 | .35 |     |     | .15  |      |      | .29  |     | .25 |    |    |    |    |     |      |     |     |     | .30  | .26  |     |     | .20  | .17 |  |  |
| Stateburg         |               |     |     | .22  | .05  |     |     |     | .03 |     | T.   | .39  | .27  |      | .39 |     |    |    |    |    |     |      |     |     |     | .18  |      |     |     | 1.25 |     |  |  |
| Summerville       |               |     |     | .17  | .25  | .02 |     | T.  | .11 |     | T.   | .41  |      | 1.15 |     |     |    |    |    |    |     | .03  | T.  |     |     | 1.23 | .12  |     |     | .46  |     |  |  |
| Sumter            |               |     |     |      |      |     |     |     |     |     |      |      |      |      |     |     |    |    |    |    |     |      |     |     |     |      |      |     |     |      |     |  |  |
| Trenton           |               |     |     | .47  | .03  |     |     |     | .22 |     |      | .36  | .22  | T.   | .28 |     |    |    |    |    |     | .35  |     |     |     | .62  | T.   |     |     | 1.65 | T.  |  |  |
| Trial             |               |     |     | .39  | T.   |     |     |     | .26 |     |      | 1.56 |      |      | .07 |     |    |    |    |    |     | .27  |     |     |     | .93  | .30  |     |     | .11  |     |  |  |
| Walhalla          |               |     |     | .10  | .55  | T.  |     |     | .15 |     |      | .20  | .20  |      | .45 |     |    |    |    |    |     |      |     |     |     | .65  | .05  |     |     | .45  |     |  |  |
| Walterboro        |               |     |     | .44  |      | T.  |     |     | T.  | .18 |      | .14  | 1.24 |      | .17 |     |    |    |    |    |     | T.   | .23 |     |     | .93  |      |     |     | .42  |     |  |  |
| Wilmington, N. C. |               |     |     | 1.04 | .15  |     |     |     | .01 |     |      | 1.07 | .26  | .69  | T.  |     |    |    |    |    |     | T.   |     |     |     | 1.04 | .32  |     |     | .22  |     |  |  |
| Winnboro          |               |     |     | 1.07 | .22  |     |     |     | .11 |     | .30  | .80  |      | 2.54 |     |     |    |    |    |    |     |      |     |     |     | 1.69 |      |     |     | .30  |     |  |  |
| Winthrop College  |               |     |     | .52  | .09  |     |     |     | .09 |     | .03  | T.   | .61  | .05  | .31 |     |    |    |    |    |     | .05  |     |     |     | .80  | .09  |     |     | .19  |     |  |  |
| Yemassee          |               |     |     | .50  | .22  | T.  |     |     | .03 | .12 |      | .28  | .25  |      | .51 |     |    |    |    |    |     | .12  | T.  |     |     | T.   | .89  |     |     | .83  |     |  |  |
| Yorkville         |               |     |     | .71  | .13  |     |     |     | T.  |     | .17  |      | .11  | .31  |     |     |    |    |    |    |     | T.   |     |     |     | .51  | .25  |     |     | .31  |     |  |  |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR MAY, 1905.

SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



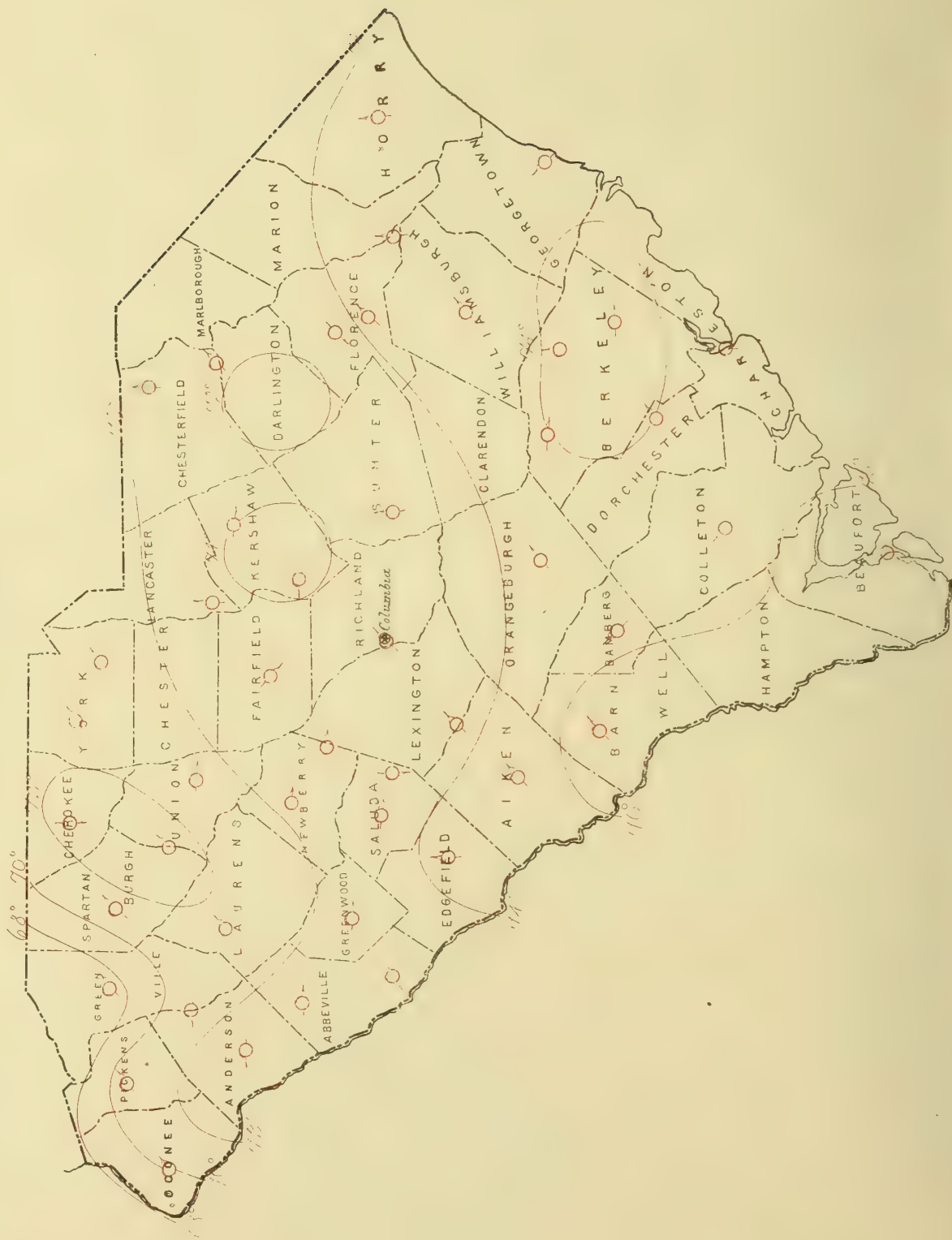
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

JUNE 28, 1905.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MAY, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,

COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., MAY, 1905. No. 5.

PROGRESS OF FARM WORK.

With the exception of night temperatures low enough to materially check the growth of cotton, during a portion of the month, closely followed by a few days of unusually high temperature near the close of the month, the amount and distribution of warmth were favorable for germination, and conducive to growth. Neither the cool nights nor the high temperatures had a material bearing on crop conditions.

There were frequent rains, and excessive precipitation, over all but the central and southwestern counties where the rainfall was either slightly above or slightly below normal, and therefore quite favorable. The northeastern, eastern and southern, and the North Carolina border counties had the heaviest rainfall, in places twice the normal amount. There were very few rains that injured the lands physically over extensive areas, but almost daily showers kept the soil saturated and interfered with the preparation of lands for late corn, and materially hindered the cultivation of field crops, which, in consequence, became foul with grass and weeds to an unusual degree. There was also a lack of sunshine which caused an unhealthy growth of cotton, corn and tobacco, and gave the plants a sickly cast. These were the prevailing conditions, but where the precipitation was about normal, an area equal to about one-third of the State, though not including the regions of heaviest cotton production, cultivation was less interrupted, and both corn and cotton attained normal development and became quite promising.

The weather conditions were adverse over the tobacco raising regions, and that crop suffered from lack of sunshine and cultivation, and an excess of moisture.

Rice did well, also gardens, truck and pastures. The forecast of previous months was verified as to fruit, there being practically none in the extreme northwest, and nearly a full crop of all kinds except apples, in other sections. Early peaches ripened and shipments were begun.

Wheat suffered from rust, and, on being harvested, the yields were almost uniformly poor. The fall sown oat crop ripened and was mostly harvested. The yields varied greatly, although generally below the average of former years. Minor crops, not enumerated, for the most part developed normally.

The prevailing weather conditions can be briefly stated to have been unfavorable, owing to excessive moisture that delayed late planting of corn and a few minor crops, hindered cultivation of corn, cotton and tobacco, and induced an unhealthy growth of corn and cotton, while other crops were not adversely affected and developed normally.

CLIMATOLOGY FOR THE MONTH.

Temperature, in Degrees Fahrenheit.

The mean temperature for May, 1905, was 73.4° which is 1.5°-above normal. The highest monthly mean was 76.6° at Allendale, the lowest was 67.6° at Greenville. The monthly extremes were a maximum of 99° at Seivern on the 30th and a minimum of 42° at Liberty on the 21st, making the State range 57°. The greatest local monthly range was 52° at Liberty and Seivern, the least was 28° at Beaufort and Charleston. The mean of the daily maximum temperatures was 83.2°, and of the daily minimum temperatures was 63.5°, making the average daily range 19.7°.

Precipitation, in Inches.

The precipitation averaged 5.72 inches which is 2.40 above normal. The greatest local monthly amount was 9.50 at Smiths Mills, the least was 2.95 at Batesburg. The greatest 24-hour fall was 3.26 at Cheraw (2) on the 27th. The average number of days with 0.01, or more, precipitation was 13, ranging from 5 at Edisto to 18 at Cheraw, Society Hill and Summerville.

Excessive Precipitation.—Allendale, 16-17th, 2.70 in 24 hrs.; Cheraw (1), 26th-27th, 3.12 in 12 hrs. 30 mins.; Clemson College, 6th, 2.84 in 24 hrs.; Summerville, 4th, 3.10 in 24 hrs.

Hail.—Barksdale, Due West 16th; Beaufort 31st; Bowman 30th; Columbia 10th; Santuc 14th; Stateburg 13th.

Weather.

The average number of clear days was 12, of partly cloudy ones 9, and of cloudy ones 10.

Winds.

The prevailing direction of the wind was from the southwest at 20 stations, from the south at 9, from the west at 8, from the southeast at 4, from the northeast and east at 3 each, and from the north and northwest at 2 each.

High Winds.—Charleston 24th; Cheraw, Newberry 17th; Columbia, Heath Springs 10th; Liberty 17, 18, 19, 30th, Little Mountain 15th; Santuc 3rd; Summerville 24, 25th; Trial 6, 11, 12, 16th; Walhalla 30th; Yemassee 31st.

BAROMETER AND WIND TABLE FOR MAY, 1905.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....     | 30.00      | 30.18    | 6     | 29.64   | 15    | 4.377           | 5.9             | 25                | S.         | 15    |
| Charleston. ....      | 30.01      | 30.20    | 6     | 29.83   | 17    | 7.983           | 10.7            | 39                | E.         | 24    |
| Charlotte, N. C. .... | 30.02      | 30.21    | 6     | 29.78   | 17    | 4.392           | 5.9             | 36                | NE.        | 13    |
| Columbia. ....        | 30.00      | 30.20    | 6     | 29.81   | 17    | 4.605           | 6.2             | 40                | SW.        | 10    |
| Savannah, Ga. ....    | 30.01      | 30.19    | 6     | 29.86   | 17    | 5.567           | 7.5             | 30                | NW.        | 16    |
| Wilmington, N. C. ... | 29.99      | 30.19    | 6     | 29.75   | 17    | 5.553           | 7.5             | 25                | NW.        | 12    |
| Averages. ....        | 30.00      | 30.21    | 6     | 29.64   | 15    | 5.413           | 7.3             | 40                | SW.        | 10    |

MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Stateburg 17th.

Lunar Halos.—Bowman 17th; Little Mountain 16th.

Dense Fogs.—Barksdale 17th; Beaufort, Bowman 5th; Blackville, Newberry, Santuc, Seivern, Yorkville 4th; Liberty 14, 27th; Little Mountain 9th; Stateburg 4, 5, 27, 28th.

Thunderstorms.—Allendale 2, 4, 5, 7, 16, 17th; Barksdale 3, 4, 6, 7, 10, 11, 12, 13, 16th; Beaufort 3, 4, 7, 8, 9, 10, 16,



20, 21, 22, 23, 26, 28, 30, 31st; Blackville 3, 4, 7, 8, 10, 16, 22, 23rd; Bowman 3, 4, 7, 10, 16, 21, 22, 23, 30, 31st; Cheraw 4, 7, 10, 13, 14, 28, 30th; Darlington 3, 4, 10, 12, 13, 31st; Due West 16th; Georgetown 2, 3, 4, 5, 10th; Heath Springs 10th; Liberty 3, 4, 5, 6, 8, 10, 15, 16, 22, 30th; Little Mountain 8, 21, 22nd; Lugoff 10, 11, 12, 14th; Newberry 2, 3, 5, 6, 8th; Saluda 22nd; Santuc 3, 5, 7, 10, 12, 14, 15, 16th; Seivern 5, 6, 7, 8, 11, 14, 16, 17, 23, 24th; Society Hill 10, 12, 26, 31st; Stateburg 3, 4, 11, 13, 16, 22, 26, 31st; Summerville 3, 4, 5, 7, 9, 10, 13, 16, 21, 22, 25, 26, 28, 30, 31st; Trenton 3, 6, 10, 15, 22, 23rd; Trial 2, 3, 4, 7, 8, 10, 16, 22, 26, 30, 31st; Walhalla 5, 7, 8th; Walterboro 9, 10, 21, 22nd; Winthrop College 3, 6, 7, 10, 11, 12, 13, 16, 22, 23, 31st; Yemassee 30, 31st; Yorkville 10, 11, 12, 13, 14, 16th.

Summarized, there were 179 storms reported, credited to various dates as follows: 4 on the 2nd, 14 on the 3rd, 12 on the 4th, 8 on the 5th, 6 on the 6th, 12 on the 7th, 8 on the 8th, 3 on the 9th, 18 on the 10th, 6 on the 11th, 7 on the 12th, 7 on the 13th, 5 on the 14th, 3 on the 15th, 14 on the 16th, 2 on the 17th, 1 on the 20th, 5 on the 21st, 12 on the 22nd, 6 on the 23rd, 1 each on the 24th and 25th, 5 on 26th, 3 on 28th, 7 on the 30th, 9 on the 31st.

The following additional thunderstorms occurred: Charleston on the 4, 5, 7, 8, 9, 10, 11, 13, 16, 21, 22, 23, 30, 31st; Columbia 3, 4, 7, 10, 11, 12th.

#### NOTES.

The average daily range of temperature this month was  $19.7^{\circ}$ , which compares with  $26.3^{\circ}$  in 1904. The means of the daily maximum temperatures were about the same for both years, although slightly lower this year than last ( $83.2^{\circ}$  in 1905,  $83.7^{\circ}$  in 1904), while the mean of the daily minimum temperatures was decidedly higher this year, the figures being  $63.5^{\circ}$  in 1905, and  $57.4^{\circ}$  in 1904. Complaints of too cool nights were more frequent last year than this.

This month had the second largest average amount of precipitation of any May since 1888, when records were begun. The following table gives the State averages for the last twelve years. For the first five years after 1894, there were about 45 stations included in the average, and since 1900 about 60 stations.

| YEAR | AMOUNT | YEAR | AMOUNT |
|------|--------|------|--------|
| 1894 | 3.93   | 1900 | 2.37   |
| 1895 | 4.36   | 1901 | 7.31   |
| 1896 | 2.74   | 1902 | 2.69   |
| 1897 | 2.39   | 1903 | 2.69   |
| 1898 | 1.35   | 1904 | 2.04   |
| 1899 | 1.68   | 1905 | 5.70   |

#### ERRATA.

The following corrections should be made in the March, 1905, number of the Monthly Report, South Carolina Section. Page 5. Greenville, mean temperature 53.6, should be 52.6; Saluda, mean temperature 57.8, should be 57.7; Summerville, mean temperature 58.9, should be 58.7. On page 6. Winnsboro, mean minimum 47.6, should be 47.7; Seivern, mean minimum 43.9, should be 43.4; Summerville, maximum on 5th 56, should be 57, on 14th 72, should be 62,

minimum on 19th 61, should be 48, mean minimum 47.9 should be 46.3; Trenton, mean minimum 48.0, should be 48.6; Winthrop College, maximum on 6th 64, should be 67.

April, 1905, Monthly Report. On page 7, the scale of shades "Less than 2", "2 to 4", "More than 4", should read "Less than 4", "4 to 6", "More than 6". Page 5, Gaffney maximum temperature 86 on 2nd, should be 87 on 2nd.

#### REMARKS BY OBSERVERS.

**BARKSDALE.**—Too frequent rains prevented cultivation and some fields of cotton became very grassy. Farm laborers are scarce. The corn crop looks well, having been properly cultivated. Wheat ripened and harvest began; the yields are poor. **BATESBURG.**—Crop prospects are fine. Wheat and oats ripened and were harvested. **BEAUFORT.**—The mean temperature was  $2.0^{\circ}$  above normal, and the precipitation was 1.78 above. Showers were well distributed throughout the month, and were of great benefit to growing crops, but interfered with oats harvest. Corn and cotton developed into fair condition, the latter forming squares. **BOWMAN.**—A very unfavorable month for general farm work. Excessive rains were the cause of grassy crops. All crops are late, especially cotton. Little or no fruit on most trees, while others are bearing well. A bright meteor was noted on the morning of the 9th. **DARLINGTON.**—It was a very disastrous month for all kinds of farm work. There was too much rain and too little sunshine. **DILLON.**—This was the wettest and hottest May of record here. **HEATH SPRINGS.**—Too much rain hindered the proper cultivation of crops, and delayed corn planting. Oats ripened and were cut, with fairly good yields. Peaches began to ripen. **LIBERTY.**—Crops did well where worked, but many fields became very grassy. Wheat was infested with rust; some ripened. Oats are promising. Some lands planted to cotton were abandoned owing to their foul condition. There is a fair peach crop, but apples are scarce. **LUGOFF.**—Wheat and oats crops are fair and harvesting was begun. Fields of corn and cotton became very grassy, and some cotton will be abandoned. Both corn and cotton are small for the season. **NEWBERRY.**—While the rainfall was not excessive, it was continuous, preventing cultivation, and allowing fields to become foul; chopping cotton was not finished. **SANTUC.**—The month was generally cloudy, with much rain and cool nights, and was, withal, unfavorable for all crops, which are at the close, from 10 to 20 days late. **SOCIETY HILL.**—Cotton, tobacco and corn were damaged, more or less, by too frequent rains. Oats became very fine. The fruit prospects are good. **STATEBURG.**—Weather conditions were exceedingly unfavorable on farm work, in regard to preparation of lands, planting, and cultivation of crops. The prevalence of cloudiness and the frequent rains, with subsequent lack of sunshine permitted fields to become foul with grass and weeds. **SUMMERVILLE.**—Numerous thunderstorms this month with considerable rain and cool nights were adverse conditions, preventing cultivation of crops and permitting them to become foul.



CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1905.

| STATIONS.                             | Counties.         | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                             | Sky.               |                    |                            |                     | Prevailing direction of wind. | Observers.             |
|---------------------------------------|-------------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|------------------------|
|                                       |                   |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, (unmelted.) | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. |                               |                        |
| Aiken.....                            | Aiken.....        | 565             | 21                      | 74.6                               | +2.5                       | 98       | 12    | 51      | 18    | 34                       | 4.35   | +0.52                      | 1.00                  | 0                           | 7                  | 13                 | 12                         | 6                   | sw.                           | L. M. Coward.          |
| Allendale.....                        | Barnwell.....     | 186             | 17                      | 76.6                               | +4.0                       | 97       | 30    | 54      | 22    | 28                       | 5.21   | +1.54                      | 2.70                  | 0                           | 7                  | 14                 | 3                          | 14                  | .....                         | C. A. Glover.          |
| Anderson.....                         | Anderson.....     | 704             | 4                       | 72.3                               | +3.0                       | 94       | 30    | 51      | 21    | 28                       | 7.76   | +1.32                      | 1.69                  | 0                           | 12                 | 17                 | 3                          | 11                  | e.                            | H. H. Russell.         |
| Augusta, Ga.....                      | Richmond.....     | 134             | 34                      | 75.4                               | +3.4                       | 95       | 13    | 58      | 2     | 26                       | 2.63   | -0.82                      | 0.69                  | 0                           | 10                 | 18                 | 6                          | 7                   | nw.                           | Weather Bureau.        |
| Barksdale.....                        | Laurens.....      | 780             | 4                       | 71.9                               | .....                      | 91       | 13    | 52      | 21    | 25                       | 3.68   | .....                      | 1.21                  | 0                           | 7                  | 11                 | 19                         | 1                   | sw.                           | J. T. Garrett.         |
| Batesburg.....                        | Lexington.....    | 656             | 17                      | 73.9                               | +2.2                       | 96       | 30    | 55      | 2     | 30                       | 2.95   | -0.71                      | 1.02                  | 0                           | 10                 | 15                 | 8                          | 8                   | n.                            | E. J. Hite.            |
| Beaufort.....                         | Beaufort.....     | 28              | 19                      | 76.1                               | +2.0                       | 91       | *13   | 63      | *2    | 23                       | 4.21   | +1.78                      | 0.80                  | 0                           | 17                 | 12                 | 13                         | 6                   | s.                            | S. M. Benton.          |
| Bennettsville.....                    | Marlboro.....     | .....           | 4                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | .....                         | Jno. L. McCall.        |
| Blackville.....                       | Barnwell.....     | 296             | 17                      | 76.0                               | +2.8                       | 98       | 30    | 54      | 2     | 30                       | 3.12   | -0.69                      | 0.75                  | 0                           | 15                 | 11                 | 18                         | 2                   | sw.                           | G. D. C. Lange.        |
| Bowman.....                           | Orangeburg.....   | 160             | 4                       | 71.9                               | .....                      | 97       | 30    | 52      | 2     | 31                       | 6.21   | .....                      | 1.65                  | 0                           | 14                 | 12                 | 15                         | 4                   | sw.                           | B. O. Evans.           |
| Calhoun Falls.....                    | Abbeville.....    | 508             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 8.12   | +4.65                      | 0.96                  | 0                           | 13                 | 14                 | 0                          | 17                  | ne.                           | P. J. Pfeiffer.        |
| Canden.....                           | Kershaw.....      | 222             | 39                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 5.40   | +2.15                      | 1.68                  | 0                           | 12                 | 13                 | 7                          | 11                  | e.                            | J. C. Whitaker.        |
| Charleston.....                       | Charleston.....   | 48              | 36                      | 75.5                               | +3.1                       | 92       | 31    | 64      | 18    | 22                       | 4.33   | +0.31                      | 1.20                  | 0                           | 15                 | 6                  | 19                         | 6                   | s.                            | Weather Bureau.        |
| Charlotte, N. C.....                  | Mecklenburg.....  | 808             | 27                      | 71.0                               | +2.6                       | 90       | 30    | 53      | 24    | 26                       | 6.08   | +1.74                      | 1.19                  | 0                           | 15                 | 5                  | 18                         | 8                   | sw.                           | Weather Bureau.        |
| Cheraw (1).....                       | Chesterfield..... | 144             | 17                      | 72.2                               | +1.1                       | 91       | 12    | 52      | 2     | 26                       | 6.97   | +3.04                      | 3.12                  | 0                           | 17                 | 7                  | 9                          | 15                  | s.                            | W. R. Godfrey.         |
| Cheraw (2).....                       | .....             | 144             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 7.46   | +3.36                      | 3.26                  | 0                           | 18                 | 13                 | 4                          | 14                  | se.                           | Jno. H. Powe.          |
| Clarks Hill.....                      | Edgefield.....    | 456             | 3                       | 73.7                               | .....                      | 95       | 13    | 54      | 3     | 31                       | 3.73   | .....                      | 1.00                  | 0                           | 7                  | 5                  | 13                         | 13                  | .....                         | Wm. S. Middleton.      |
| Clemson College.....                  | Oconee.....       | 850             | 14                      | 72.2                               | +1.9                       | 89       | *12   | 49      | 1     | 28                       | 8.65   | +5.44                      | 2.84                  | 0                           | 15                 | 20                 | 3                          | 8                   | sw.                           | Jno. N. Hook.          |
| Columbia.....                         | Richland.....     | 351             | 18                      | 73.8                               | +1.4                       | 95       | 30    | 56      | 2     | 25                       | 3.75   | -0.11                      | 0.85                  | 0                           | 12                 | 6                  | 13                         | 12                  | sw.                           | Central Office.        |
| Conway.....                           | Horry.....        | 25              | 14                      | 74.2                               | .....                      | 96       | 30    | 53      | 2     | 29                       | 4.95   | +1.49                      | 0.90                  | 0                           | 14                 | 24                 | 3                          | 4                   | s.                            | McQ. Quattlebaum.      |
| Darlington.....                       | Darlington.....   | 175             | 10                      | 71.8                               | .....                      | 91       | 31    | 50      | 2     | 34                       | 7.61   | +4.95                      | 1.28                  | 0                           | 16                 | 4                  | 21                         | 6                   | .....                         | Robt. E. James.        |
| Dillon.....                           | Marion.....       | 100             | 1                       | 74.6                               | .....                      | 95       | *12   | 54      | *18   | 30                       | 5.42   | +2.76                      | 1.69                  | 0                           | 11                 | .....              | .....                      | .....               | .....                         | A. E. Rowell.          |
| Due West.....                         | Abbeville.....    | 710             | 4                       | 72.0                               | .....                      | 92       | 30    | 54      | 21    | 23                       | 7.00   | .....                      | 2.11                  | 0                           | 10                 | 12                 | 9                          | 10                  | w.                            | Rev. O. Y. Bonner.     |
| Edisto.....                           | Bamberg.....      | 127             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.40   | +0.34                      | 1.00                  | 0                           | 5                  | 19                 | 10                         | 2                   | se.                           | Mrs. M. Thompson.      |
| Ellingham.....                        | Florence.....     | 106             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 8.98   | +5.47                      | 0.90                  | 0                           | 15                 | 19                 | 0                          | 12                  | sw.                           | H. B. McCall.          |
| Enoree.....                           | Spartanburg.....  | 987             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.15   | .....                      | 0.96                  | 0                           | 12                 | 17                 | 3                          | 11                  | sw.                           | E. P. Porter.          |
| Florence.....                         | Florence.....     | 136             | 17                      | 73.4                               | +0.7                       | 95       | 30    | 53      | 2     | 27                       | 4.94   | +1.20                      | 0.80                  | 0                           | 16                 | 14                 | 2                          | 15                  | ne.                           | H. K. Gilbert.         |
| Gaffney.....                          | Cherokee.....     | 893             | 9                       | 72.2                               | .....                      | 96       | 30    | 50      | *1    | 35                       | 6.77   | +4.31                      | 2.40                  | 0                           | 17                 | 15                 | 13                         | 2                   | n.                            | B. F. Camp.            |
| Georgetown.....                       | Georgetown.....   | 12              | 12                      | 74.2                               | +2.2                       | 90       | 12    | 60      | *1    | 22                       | 4.39   | +1.04                      | 1.05                  | 0                           | 14                 | 16                 | 2                          | 13                  | sw.                           | Reid Whitford.         |
| Greenville.....                       | Greenville.....   | 989             | 13                      | 67.6                               | -0.4                       | 90       | 30    | 47      | *2    | 32                       | 6.51   | +3.01                      | 1.45                  | 0                           | 14                 | 16                 | 2                          | 13                  | sw.                           | Mrs. S. A. Crittenden. |
| Greenwood.....                        | Greenwood.....    | 671             | 17                      | 72.0                               | +0.4                       | 92       | 30    | 54      | *2    | 25                       | 5.36   | +1.56                      | 1.50                  | 0                           | 10                 | 17                 | 1                          | 13                  | w.                            | M. M. Calhoun.         |
| Heath Springs.....                    | Lancaster.....    | .....           | 4                       | 71.1                               | .....                      | 95       | 31    | 54      | 19    | 28                       | 4.53   | .....                      | 1.00                  | .....                       | 13                 | 13                 | 7                          | 11                  | s.                            | J. A. Weaner.          |
| Kingstree (1).....                    | Williamsburg..... | 54              | 17                      | 75.8                               | +3.5                       | 95       | 30    | 57      | 2     | 23                       | 3.77   | +0.49                      | 0.79                  | 0                           | 9                  | 17                 | 2                          | 12                  | sw.                           | J. A. Scott.           |
| Kingstree (2).....                    | .....             | 54              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.66   | +0.90                      | 0.90                  | 0                           | 9                  | 18                 | 2                          | 8                   | ne.                           | A. O. Matthews.        |
| Liberty.....                          | Pickens.....      | 900             | 11                      | 71.0                               | -0.1                       | 94       | 30    | 42      | 21    | 39                       | 6.72   | +3.79                      | 1.75                  | 0                           | 11                 | 15                 | 11                         | 5                   | sw.                           | Jno. T. Boggs.         |
| Little Mountain.....                  | Newberry.....     | 711             | 12                      | 73.1                               | +0.6                       | 96       | 30    | 55      | *2    | 26                       | 5.18   | +2.03                      | 1.14                  | 0                           | 9                  | 7                  | 17                         | 7                   | w.                            | John M. Sease, M. D.   |
| Lugoff.....                           | Kershaw.....      | 168             | 4                       | 74.8                               | .....                      | 97       | 30    | 54      | 24    | 33                       | .....  | .....                      | 1.50                  | 0                           | .....              | 10                 | 4                          | 7                   | w.                            | W. J. Burdell, M. D.   |
| Newberry.....                         | Newberry.....     | 502             | 1                       | 73.4                               | +2.2                       | 97       | 30    | 52      | 2     | 29                       | 3.99   | +1.49                      | 0.73                  | 0                           | 12                 | 8                  | 11                         | 12                  | w.                            | W. G. Peterson.        |
| Pelzer.....                           | Anderson.....     | 873             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.17   | .....                      | 1.10                  | 0                           | 14                 | 16                 | 2                          | 13                  | e.                            | John M. Ward.          |
| Pinopolis.....                        | Berkeley.....     | 54              | 12                      | 71.5                               | +1.0                       | 90       | 30    | 58      | *2    | .....                    | 3.97   | +0.41                      | 1.27                  | 0                           | 10                 | 7                  | 8                          | 16                  | sw.                           | E. P. Ravenel.         |
| St. Georges.....                      | Dorchester.....   | 109             | 17                      | 75.0                               | +2.7                       | 95       | 31    | 56      | *1    | 27                       | 5.84   | +2.70                      | 1.40                  | 0                           | 13                 | 21                 | 0                          | 10                  | .....                         | W. B. Raysor.          |
| St. Matthew.....                      | Orangeburg.....   | 269             | 17                      | 72.6                               | -0.3                       | 91       | *13   | 53      | *23   | 24                       | 8.82   | +5.52                      | 2.00                  | 0                           | 13                 | 17                 | 0                          | 14                  | .....                         | J. S. Wannamaker.      |
| St. Stephen.....                      | Berkeley.....     | 73              | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 7.02   | +2.96                      | 1.75                  | 0                           | 16                 | 18                 | 1                          | 12                  | s.                            | C. T. Shuler.          |
| Saluda.....                           | Saluda.....       | 536             | 4                       | 73.4                               | .....                      | 95       | *13   | 51      | *2    | 31                       | 3.52   | .....                      | 1.03                  | 0                           | 10                 | 22                 | 1                          | 7                   | w.                            | Alvin Etheridge.       |
| Santee.....                           | Union.....        | 512             | 12                      | 71.1                               | +1.4                       | 95       | 30    | 49      | 2     | 32                       | 7.21   | +4.36                      | 2.15                  | 0                           | 11                 | 8                  | 14                         | 9                   | w.                            | E. W. Jeter.           |
| Savannah, Ga.....                     | Chatham.....      | 71              | 36                      | 76.8                               | +3.9                       | 95       | 13    | 61      | 18    | 24                       | 6.69   | +3.77                      | 2.10                  | 0                           | 17                 | 6                  | 8                          | 17                  | sw.                           | Weather Bureau.        |
| Seivern.....                          | Aiken.....        | 482             | 4                       | 72.8                               | +0.3                       | 99       | 30    | 47      | *2    | 35                       | 3.79   | -0.83                      | 0.98                  | 0                           | 15                 | 5                  | 11                         | 15                  | sw.                           | Geo. C. Gunter.        |
| Smiths Mills.....                     | Williamsburg..... | 62              | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 9.50   | +4.71                      | 3.10                  | 0                           | 11                 | 13                 | 0                          | 18                  | s.                            | H. van Keuren.         |
| Society Hill.....                     | Darlington.....   | 192             | 14                      | 73.2                               | +1.2                       | 91       | *12   | 54      | 1     | 23                       | 5.86   | +2.46                      | 1.17                  | 0                           | 18                 | 12                 | 8                          | 11                  | sw.                           | J. J. Lucas.           |
| Spartanburg.....                      | Spartanburg.....  | 875             | 14                      | 71.1                               | +0.8                       | 95       | 12    | 50      | *1    | 33                       | 7.21   | +4.11                      | 2.45                  | 0                           | 16                 | 15                 | 3                          | 13                  | .....                         | F. P. Robinson.        |
| Stateburg.....                        | Sumter.....       | 500             | 28                      | 73.6                               | +2.0                       | 95       | 30    | 56      | 2     | 24                       | 6.95   | +3.55                      | 1.34                  | 0                           | 15                 | 6                  | 9                          | 16                  | s.                            | W. W. Anderson, M. D.  |
| Summerville.....                      | Dorchester.....   | 75              | 8                       | 73.8                               | +2.4                       | 93       | *12   | 55      | *2    | 29                       | 4.05   | +0.83                      | 1.35                  | 0                           | 18                 | 8                  | 11                         | 12                  | sw.                           | Miss E. H. Gadsden.    |
| Sumter.....                           | Sumter.....       | 169             | 4                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | .....                         | Wm. D. Shaw.           |
| + Trenton.....                        | Edgefield.....    | 620             | 12                      | 74.3                               | +0.4                       | 95       | *13   | 56      | *2    | 29                       | 4.10   | +1.19                      | 1.42                  | 0                           | 9                  | 7                  | 17                         | 7                   | s.                            | C. A. Long.            |
| Trial.....                            | Berkeley.....     | 85              | 19                      | 74.0                               | +3.6                       | 96       | 30    | 52      | 2     | 30                       | 5.70   | +1.09                      | 1.15                  | 0                           | 12                 | 7                  | 13                         | 11                  | w.                            | Etsell Gaillard.       |
| Walhalla.....                         | Oconee.....       | 1061            | 14                      | 70.0                               | +2.7                       | 93       | 29    | 46      | 1     | 35                       | 8.70   | +5.76                      | 2.00                  | 0                           | 12                 | 12                 | 14                         | 5                   | sw.                           | L. E. Isbell.          |
| Walterboro.....                       | Colleton.....     | .....           | 2                       | 75.8                               | .....                      | 98       | 12    | 56      | *18   | 30                       | 5.91   | .....                      | 1.50                  | 0                           | 15                 | 8                  | 16                         | 7                   | sw.                           | J. A. Westerberg.      |
| Wilmington, N. C.....                 | New Hanover.....  | 52              | 36                      | 72.8                               | +3.1                       | 92       | 12    | 54      | 24    | 25                       | 5.76   | +1.60                      | 1.93                  | 0                           | 14                 | 7                  | 17                         | 7                   | sw.                           | Weather Bureau.        |
| Winnsboro.....                        | Fairfield.....    | 545             | 16                      | 73.2                               | +1.7                       | 94       | 30    | 53      | 2     | 24                       | 3.60   | +0.30                      | 1.77                  | 0                           | 6                  | 15                 | 11                         | 5                   | nw.                           | John W. Seigler.       |
| Winthrop College.....                 | York.....         | 690             | 6                       | 71.6                               | +0.2                       | 93       | 30    | 52      | *24   | 28                       | 7.43   | +3.99                      | 2.23                  | 0                           | 15                 | 13                 | 10                         | 8                   | sw.                           | Geo. B. Green.         |
| Yemassee.....                         | Beaufort.....     | 23              | 10                      | 75.0                               | +0.4                       | 96       | 13    | 57      | *18   | 28                       | 6.70   | +4.20                      | 1.81                  | 0                           | 14                 | 16                 | 5                          | 10                  | .....                         | J. G. Hutson.          |
| Yorkville.....                        | York.....         | 680             | 17                      | 72.8                               | +1.5                       | 93       | *12   | 54      | *1    | 29                       | 7.90   | +4.32                      | 2.31                  | 0                           | 14                 | 6                  | 14                         | 11                  | sw.                           | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |                   |                 |                         | 73.4                               | +1.8                       | 99       | 30    | 42      | 21    | 35                       | 5.70   | +2.40                      | 3.26                  | 0                           | 13                 | 12                 | 9                          | 10                  | sw.                           | .....                  |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.



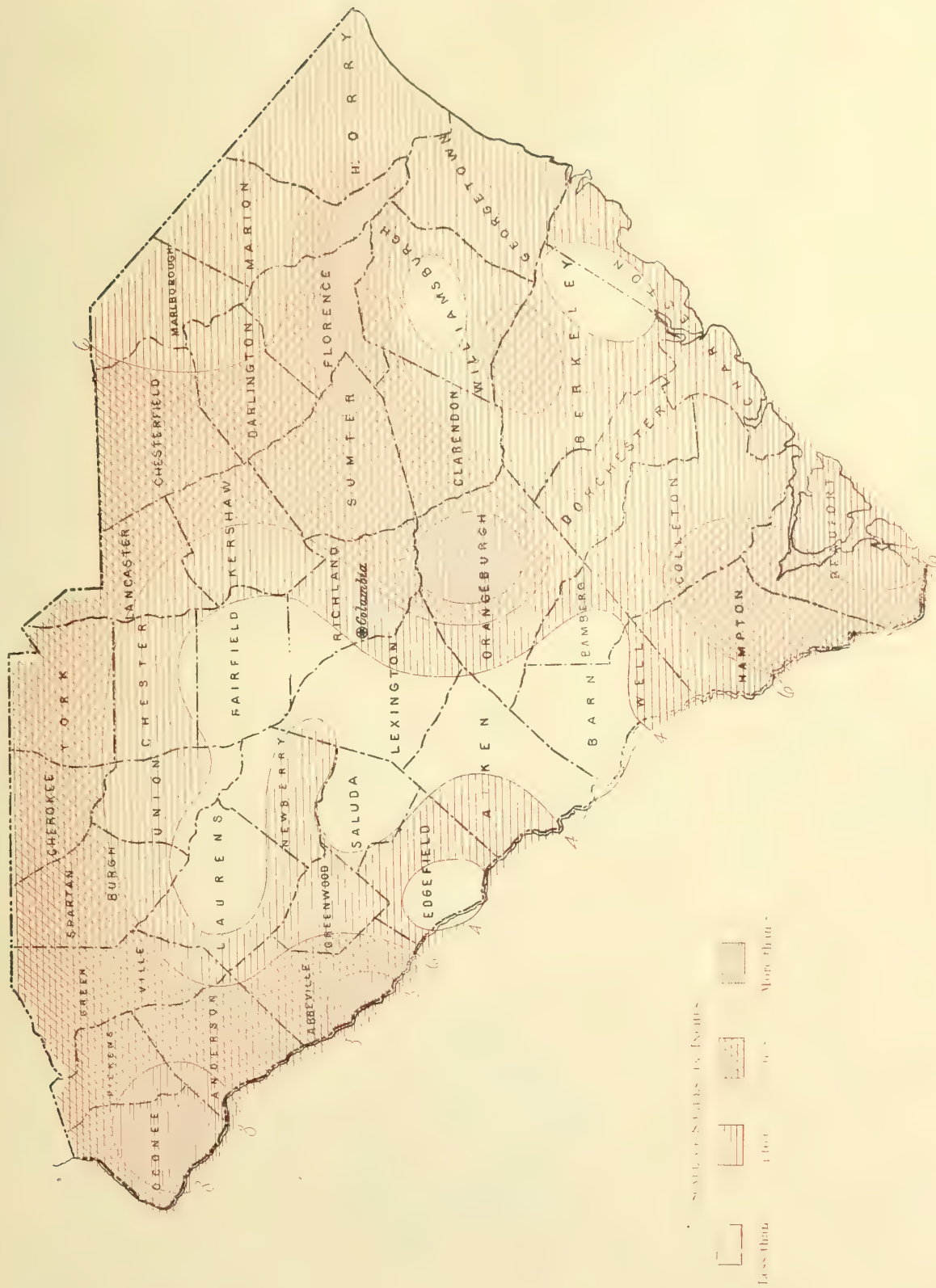
### STATIONS.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.



# TOTAL PRECIPITATION FOR MAY, 1905.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1905.

| STATIONS.         | Day of Month. |     |      |      |      |      |      |      |     |      |      |      |     |      |      |      |      |    |    |     |     |     |      |      |      |     |      |      |     |     |     | Total. |      |      |
|-------------------|---------------|-----|------|------|------|------|------|------|-----|------|------|------|-----|------|------|------|------|----|----|-----|-----|-----|------|------|------|-----|------|------|-----|-----|-----|--------|------|------|
|                   | 1             | 2   | 3    | 4    | 5    | 6    | 7    | 8    | 9   | 10   | 11   | 12   | 13  | 14   | 15   | 16   | 17   | 18 | 19 | 20  | 21  | 22  | 23   | 24   | 25   | 26  | 27   | 28   | 29  | 30  | 31  |        |      |      |
| Aiken             |               |     | .25  | .20  |      |      |      |      |     |      |      |      |     |      |      | .90  |      |    |    |     | .60 |     |      |      |      |     |      |      |     |     |     | 4.35   |      |      |
| Allendale         |               | .83 |      | .49  | .54  |      | .45  |      |     |      |      |      |     |      |      |      | 2.70 |    |    |     |     | T.  | 1.00 | .50  | .90  |     | .10  |      |     |     |     | 5.21   |      |      |
| Anderson          |               |     | 1.69 |      |      | 1.32 | .68  | .32  |     | .08  |      |      |     |      | .05  | .35  |      |    |    |     |     | .25 | .49  | .88  |      | .21 |      |      |     |     | .44 | 7.76   |      |      |
| Augusta, Ga.      |               | .04 | .13  | T.   |      |      | .01  | T.   |     | .05  |      |      |     |      |      | .55  |      |    |    |     |     | .59 | .30  | .36  |      | T.  | .46  |      | T.  |     |     | 2.63   |      |      |
| Barksdale         |               |     | 1.15 | T.   |      | T.   | .28  | .05  |     |      |      |      | T.  |      |      | .30  |      |    |    |     |     | .21 | .28  | 1.21 |      |     | T.   |      |     |     | .20 | 3.68   |      |      |
| Batesburg         |               |     | .32  | .05  |      |      | .30  | T.   | .03 |      |      |      |     |      |      | .04  | .16  |    |    |     |     | .23 | .49  | .31  | 1.02 |     | T.   |      |     |     |     | 2.95   |      |      |
| Beaufort          |               | .11 | .08  | .02  | .34  |      | .80  | .11  | .19 | T.   | .16  |      |     |      |      | .05  | .38  |    |    |     |     | .36 | .01  | .02  |      | .15 | .73  |      |     | .04 | .66 | 4.21   |      |      |
| Bennettsville     |               |     |      |      |      |      |      |      |     |      |      |      |     |      |      |      |      |    |    |     |     |     |      |      |      |     |      |      |     |     |     |        |      |      |
| Blackville        |               |     | .11  |      | .75  |      | .17  | .04  | .14 | .18  | .02  |      |     |      |      | .10  | .30  |    |    |     |     | .23 | .29  | .40  | .30  |     | .05  | .04  |     |     |     | 3.12   |      |      |
| Bowman            |               | .03 | 1.65 | .18  | T.   | T.   | .67  | .20  | .04 | .70  |      |      |     |      |      | .88  |      |    |    |     |     | .64 | .30  | .15  |      | T.  | .55  | T.   |     | .14 | .08 | 6.21   |      |      |
| Calhoun Falls     |               |     | .82  | .94  |      |      | .89  |      | .96 |      |      |      |     |      |      | .81  | .42  |    |    |     |     | .22 | .48  | .96  | .74  |     | .38  | .31  |     |     |     | 8.12   |      |      |
| Camden            |               |     | .32  | .54  | .40  |      | .26  |      |     |      | 1.05 |      |     |      |      |      | .20  |    |    |     |     | .25 | .10  | .30  |      | .25 | 1.68 | .05  |     |     |     | 5.40   |      |      |
| Charleston        | T.            | .26 | .01  | .07  | .02  |      | .01  | T.   | T.  | .52  | .68  |      |     |      |      | T.   | .24  |    |    |     |     | .07 | .16  | .26  |      | .04 | .77  |      |     |     | .01 | 1.12   |      |      |
| Charlotte, N. C.  |               | .02 | 1.40 |      | .15  | .09  | 1.43 | T.   |     | .11  |      | .18  | .46 |      | 1.05 | .14  | T.   |    |    |     |     | .21 | .47  | .16  |      |     | .20  | .01  |     | T.  |     | 6.08   |      |      |
| Cheraw(1)         |               |     | .01  | .16  | .05  |      | .32  | .03  |     |      | .79  |      | .27 | .02  |      |      | .05  |    |    |     |     | .06 | .44  | 1.04 | .16  |     | .07  | 3.12 | .01 |     |     | .39    |      |      |
| Cheraw(2)         |               |     | .10  | .15  | .02  |      | .36  | .04  | .02 |      | .72  |      | .27 | .03  |      |      | .06  |    |    |     |     | .06 | .44  | 1.09 | .15  |     | .08  | 3.26 | T.  | .03 |     | .58    |      |      |
| Clark's Hill      |               |     | .66  |      |      |      | .02  | T.   |     |      |      |      |     |      |      | .50  |      |    |    |     |     | .97 | .40  | 1.00 |      | T.  | .18  |      |     |     |     | 7.46   |      |      |
| Clemson College   |               |     | 1.18 | .15  |      | 2.84 | .90  | .33  |     | .02  |      |      |     |      |      | .69  |      |    |    |     |     | .51 | .64  | .70  |      | .27 | .09  | .23  | .06 |     | .04 | 8.65   |      |      |
| Columbia          |               | .01 | .84  | T.   |      |      | .36  | .02  |     | .64  | .05  | T.   | T.  |      |      | .29  |      |    |    |     |     | .33 | .34  | .37  |      |     | .49  | .01  |     |     |     | 3.75   |      |      |
| Conway            |               |     | .90  | .65  | .25  |      | .25  | .10  |     |      |      |      |     | .15  |      |      |      |    |    |     |     |     | .25  | .80  | .15  |     | .10  | .20  |     |     | .15 | 4.95   |      |      |
| Darlington        |               |     | .40  | .14  |      |      | .62  | .42  |     | .30  | .65  | 1.28 |     |      | .02  | .75  |      |    |    |     |     | .17 | .08  | .73  |      |     | .93  | .57  | .08 |     | .47 | 7.61   |      |      |
| Dillon            |               |     | 1.69 | .03  |      |      | .19  | .14  |     | .79  |      |      |     |      |      | 1.27 |      |    |    |     |     | .36 | .28  | .23  |      |     |      |      |     | .22 | .22 | 5.42   |      |      |
| Due West          |               |     | 2.11 |      |      | .77  | .80  | .18  |     |      |      |      |     |      |      | .62  |      |    |    |     |     | .29 | .32  | 1.59 |      | .21 |      |      |     |     | .11 | 7.00   |      |      |
| Edisto            |               |     |      | .50  | 1.00 |      |      |      |     | .70  |      |      |     |      |      |      | .40  |    |    |     |     |     |      |      |      |     | .80  |      |     |     |     | 3.40   |      |      |
| Effingham         |               |     |      | .50  | .20  |      |      | T.   | .80 | .90  |      | .70  | .80 | .25  | .50  | .98  |      |    |    |     |     |     | .25  | .80  | .70  |     | .20  | .50  | .90 | T.  |     | 8.98   |      |      |
| Enoree            |               |     | .96  | .75  |      | .30  | .75  |      | .05 |      |      |      | .17 | .55  | .65  |      |      |    |    |     |     | T.  | .40  | .72  | .50  |     |      |      |     |     |     | 6.15   |      |      |
| Florence          |               |     | .10  | .40  | .06  |      | .20  | .50  | .25 |      | .80  |      |     |      | .32  | .06  | .40  |    |    |     |     |     | .12  | .54  | .30  |     | .03  | .50  |     | .36 |     | 4.94   |      |      |
| Gaffney           |               |     | .96  | 1.44 | .05  | .70  | .22  |      |     |      |      | .22  | .94 | .32  |      | .27  | .10  |    |    |     |     | .05 | .15  | .20  | .34  |     | .05  | .36  | .40 |     |     | 6.77   |      |      |
| Georgetown        | 1.05          |     | .55  | .15  | .02  |      | .08  |      |     | .58  |      |      |     |      |      | .10  |      |    |    |     |     | .25 | .19  | .85  |      | .12 | .07  | .03  | .35 |     |     | 4.39   |      |      |
| Greenville        |               |     | 1.45 | .48  | .10  | .47  | .87  | T.   | .20 | .05  |      |      |     | .19  |      | .71  |      |    |    |     |     | .21 | .14  | .66  | .95  |     | .03  |      |     |     |     | 6.51   |      |      |
| Greenwood         |               |     | .30  | .93  |      | .20  |      |      | .65 |      |      |      |     |      |      | .32  | .20  |    |    |     |     |     | .71  | .31  | 1.50 |     |      |      |     |     |     | 5.36   |      |      |
| Heath Springs     |               |     | .63  | T.   |      |      | .23  | T.   | T.  | .80  |      | .31  | .01 | T.   | .30  | .07  |      |    |    |     |     | .20 | .34  | 1.00 |      |     |      | .46  | .15 |     | .03 | 4.53   |      |      |
| Kingstree(1)      |               |     | T.   | .39  | .67  |      | .18  | T.   | T.  |      | .79  |      |     |      |      |      | .39  |    |    |     |     |     | .29  | .34  | .49  |     | T.   | .23  |     |     |     | 3.77   |      |      |
| Kingstree(2)      |               |     |      | .41  | .49  |      | .25  | .05  |     |      | .90  |      |     |      |      |      | .43  |    |    |     |     |     | .33  | .30  | .47  |     |      |      |     |     |     | 3.66   |      |      |
| Liberty           |               | T.  | 1.75 | T.   | .30  | 1.05 |      | .67  |     | T.   |      |      |     | T.   | .10  | .40  | .50  |    |    |     |     |     | .30  | 1.50 |      | .10 | .05  | T.   |     |     | T.  | 6.72   |      |      |
| Little Mountain   | .02           | T.  | .60  |      |      |      | .99  | 1.06 |     | T.   |      |      |     |      |      | .31  |      |    |    |     |     |     | .26  | .10  | .70  |     |      | 1.14 |     |     |     | 5.18   |      |      |
| Lugoff            |               |     |      |      |      |      |      |      |     | T.   | .87  | .03  |     |      |      | .28  |      |    |    |     |     |     | .40  |      |      | .01 | .12  | 1.50 | .20 |     |     |        |      |      |
| Newberry          |               | .18 | .40  |      | .02  | .67  | T.   | .33  |     |      |      |      |     |      | T.   | .15  | .25  |    |    |     |     | .04 | .47  | .08  | .73  |     | T.   | .67  |     |     |     | 3.99   |      |      |
| Pelzer            |               |     | 1.10 | .80  |      | .08  | 1.10 |      | .15 |      |      |      | .25 | .12  |      | .37  |      |    |    |     |     |     | .22  | .25  | .82  | .55 |      | .25  |     |     | .11 | 6.17   |      |      |
| Pinopolis         |               |     | .73  | .17  |      |      | .19  |      | .17 |      |      |      |     |      |      | .59  |      |    |    |     |     |     | .20  | .70  | .12  |     | .17  | .93  |     |     |     | 3.97   |      |      |
| St. Georges       |               |     |      | 1.00 | .50  |      | .40  | .20  | .30 | 1.40 |      |      |     |      |      |      | .44  |    |    |     |     |     | .50  | .15  | .20  | .10 |      | .25  | .40 |     |     | 5.84   |      |      |
| St. Matthew       |               |     | .12  | 2.00 |      |      | .05  | 1.35 | .16 | .38  | .77  |      |     |      |      |      | .62  |    |    |     |     |     | .62  | .71  | .32  |     | .66  | 1.06 |     |     |     | 8.82   |      |      |
| St. Stephen       |               |     | .06  | 1.48 | .05  |      | .43  | .22  | .02 | 1.75 |      |      |     | .25  | .10  | .05  | .64  |    |    |     |     |     | .54  | .30  | .30  |     | .46  | .37  |     |     |     | 7.02   |      |      |
| Saluda            |               | T.  | .46  | .01  |      |      | .02  | .24  |     |      |      |      |     |      |      | .59  |      |    |    |     |     |     | .52  | .51  | 1.03 | .02 |      | .12  |     |     |     | 3.52   |      |      |
| Santuc            |               |     | 2.15 |      | .15  |      | .32  | T.   |     | T.   |      | .06  |     | .76  | T.   | 1.07 |      |    |    |     |     |     | .08  | .40  | 1.21 |     |      | .94  |     |     |     | .07    |      |      |
| Savannah, Ga.     |               | .09 | .09  | .52  |      | T.   | 2.10 |      | .18 | .17  |      |      |     |      |      | .61  |      |    |    | .01 | .01 | .70 | .17  | .02  | T.   | .51 | .18  |      | .01 | .96 | .46 | 6.69   |      |      |
| Seivern           | T.            |     | .21  | .18  | .12  | .01  | .20  | .98  | .03 | .25  |      |      |     | T.   |      | .04  | .20  |    |    |     |     | .03 | .59  | .44  | .46  |     | .05  | T.   |     | T.  |     | 3.79   |      |      |
| Smiths Mills      |               |     |      | 3.10 | 1.30 |      | T.   | .20  | T.  | .10  | 1.50 |      |     |      | .60  | .40  | .20  |    |    |     |     | T.  | .30  | .20  | 1.00 |     | T.   |      | T.  | T.  |     | .60    | 9.50 |      |
| Society Hill      |               | .06 | .12  | .56  | .22  |      |      | .03  |     | 1.07 |      | .52  | .03 | .04  | .06  |      |      |    |    | .11 |     | .47 | .37  | .16  |      |     | 1.17 | .27  |     | .32 | .28 | 5.86   |      |      |
| Spartanburg       |               |     | 1.15 | 2.45 | .03  | .12  | .37  |      | .07 | .03  | T.   | .72  | .30 |      | .35  |      |      |    |    |     |     | .09 | .13  | .70  | .37  |     | .08  | .05  |     |     | T.  | 7.21   |      |      |
| Stateburg         |               |     | 1.34 | .60  |      |      | .46  | .33  |     | 1.20 |      |      |     | 1.00 |      | .31  |      |    |    |     |     |     | .27  | .36  | .23  |     |      | .64  | .08 | .02 |     | .02    | .09  | 6.95 |
| Summerville       |               | T.  | .05  | .55  | .08  | T.   | T.   | .04  | T.  | .06  | .19  | .01  |     |      | .04  | .63  | .02  |    |    |     |     | .07 | .02  | .51  | .03  | T.  | 1.35 | .20  |     | .01 | .19 | 4.05   |      |      |
| Sumter            |               |     |      |      |      |      |      |      |     |      |      |      |     |      |      |      |      |    |    |     |     |     |      |      |      |     |      |      |     |     |     |        |      |      |
| Trenton           |               | .02 | .42  |      |      |      | .22  | .03  |     |      |      |      |     |      |      | .56  |      |    |    |     |     |     | .98  | .42  | 1.42 |     |      | .03  |     |     |     | 4.10   |      |      |
| Trial             |               | T.  | .63  | .17  |      | T.   | .83  | .07  | .02 | 1.15 |      |      |     |      |      | .61  |      |    |    |     |     |     | .65  | .34  | .09  |     | T.   | 1.10 |     |     | .04 | 5.70   |      |      |
| Walhalla          |               |     | 1.60 | .15  |      | .45  | .75  | .20  | T.  |      |      |      |     |      |      | 1.10 | .70  |    |    |     |     |     | .40  | T.   | 2.00 |     | .35  | .60  | T.  | .40 |     | 8.70   |      |      |
| Walterboro        |               | .02 | .01  | .03  | .46  | 1.10 |      | .20  |     | .06  | T.   | .42  |     |      |      | .53  |      |    |    |     |     |     | .43  |      | 1.50 |     | .02  | .09  |     |     |     | 5.91   |      |      |
| Wilmington, N. C. |               |     | 1.93 | .37  |      | .13  | T.   | T.   |     | .69  |      | .34  | .05 |      |      | .07  | T.   |    |    |     |     | .23 | .36  | .65  |      |     | .56  | T.   | .14 | T.  | .07 | 5.76   |      |      |
| Winnsboro         |               |     | .42  |      |      | .15  | T.   | .15  |     |      |      |      |     |      |      | T.   |      |    |    |     |     |     |      |      |      |     |      |      |     |     |     |        |      |      |

T. indicates trace, less than .01 inch.



562 (9)  
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U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR JUNE, 1905.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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WILLIS L. MOORE,  
CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,  
SECTION DIRECTOR.



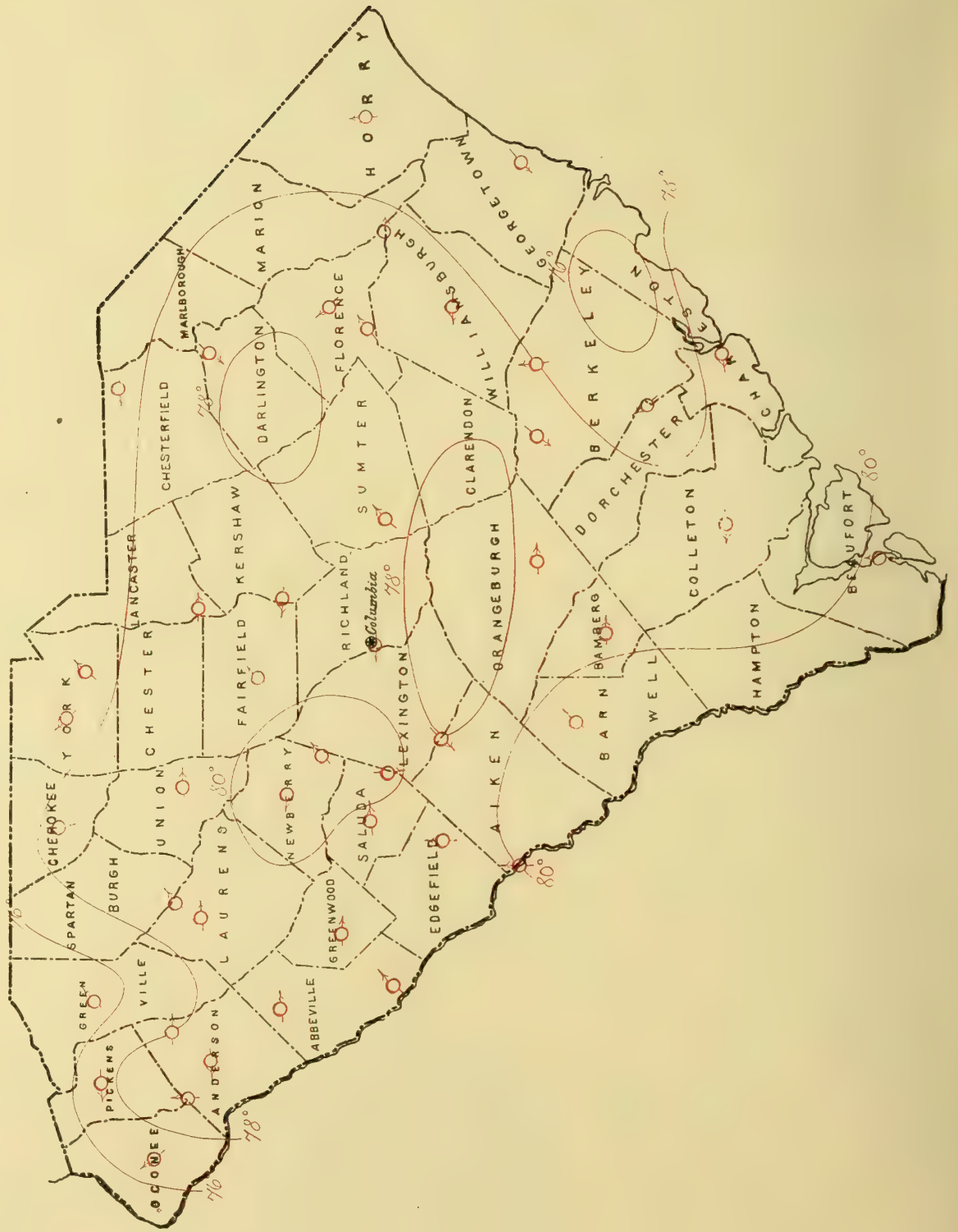
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

JULY 27, 1905.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JUNE, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.  
**CLIMATE AND CROP SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.  
  
SOUTH CAROLINA SECTION.  
J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., JUNE, 1905. No. 6.

**PROGRESS OF FARM WORK.**

The month opened with unusual warmth which gave way to about a week of cool weather with low night temperatures that checked the growth of cotton and caused lice to develop rapidly, but did not affect other crops injuriously. The temperature was normal, or above, during the last half with a period of very high day temperatures from the 21st to the 25th, that caused corn and cotton to wilt, especially within the driest areas. Lice gradually disappeared as the heat increased, and other injurious insects, particularly worms on corn, also became less numerous and damaging. On the whole, the temperature conditions were favorable.

The month began with the soil well supplied with moisture, but the scant rainfall and the prevalence of fresh to brisk drying winds during the first half of the month, developed droughty conditions over the larger portion of the State, which were relieved, during the last decade, in the extreme western portions, and in most of the eastern counties, while the central and northern counties received only light scattered showers and the drought increased to the end of the month and began seriously to affect practically all crops adversely. At a number of stations in the central counties, the precipitation was the least of any June of record, covering a period of from 12 to 18 years.

There was so much rain in the previous month that crops could not be properly cultivated, so that, at the beginning of June, nearly all field crops were foul with grass and weeds. The dry weather of this month afforded opportunity to clean and cultivate them, and their condition at the close was as satisfactory as usual in this respect.

Cotton was infested with lice at the beginning of the month, was foul, and the plants were small and in many places had an unhealthy color, while a large portion of the crop had not been chopped to stands. These unpromising conditions gave way rapidly under cultivation and higher temperatures, and the steady improvement was not materially affected by the absence of rain, except that in the driest sections the plants did not grow as rapidly as seemed desirable, and bloomed to the top. Over most of the State, and especially on clayey soils, cotton attained its usual size, and fruited normally.

Early planted corn, especially that portion of the crop that was not thoroughly worked in May, was seriously damaged by the dry weather in all parts of the State. April and May plantings did better and became very promising. The dry weather checked the growth, and the lack of proper cultivation injured the quality of tobacco; selecting and curing was begun. Wheat and oats harvest was finished and thrashing begun. The yields of wheat were very poor, and of oats

were variable but generally fair. Among minor crops, melons developed normally and some shipments were made. Early peaches were excellent while other fruits, except apples, were plentiful in all except the western counties. Early rice became promising and extensive sowing of June rice was made in some districts. The truck season ended. Garden vegetables became scarce.

**CLIMATOLOGY FOR THE MONTH.**

Temperature, in Degrees Fahrenheit.

The mean temperature for June, 1905, was 78.9° which is 0.9° above normal. The highest local mean was 81.0° at Blackville, the lowest was 74.8° at Greenville. The monthly extremes were a maximum of 101° at Yorkville on the 22nd, and a minimum of 43° at Seivern on the 10th, making the State range 58°. The greatest local monthly range was 57° at Seivern, the least was 31° at Charleston. The mean of the daily maximum temperatures was 89.9°, and of the daily minimum temperatures was 67.9°, making the average daily range 22.0°.

Precipitation, in Inches.

The precipitation averaged 1.92 inches, which is 3.28 below normal. The greatest local amount was 6.30 at Walhalla, the least was 0.17 at Little Mountain. The greatest 24-hour fall was 5.25 at Walhalla on the 30th. The average number of days with 0.01, or more, precipitation was 6, ranging from 1 at St. George to 9 at Cheraw and Summerville.

Excessive Precipitation.—Walhalla, 30th, 5.25 in 24 hours. Hail.—Anderson 3rd, Conway, May 31st. (Not previously published.)

Weather.

The average number of clear days was 6, of partly ones 14, and of cloudy ones 10.

Winds.

The prevailing direction of the wind was from the east at 12 stations, from the southwest at 11, from the west at 10, from the northeast at 6, from the south at 5, from the southeast at 4, and from the north at 2.

High Winds.—Charleston, Cheraw 8th; Liberty 8th, 9th, 22nd; Seivern 9th, 10th; Summerville 9th.

**BAROMETER AND WIND TABLE FOR JUNE, 1905.**

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 29.98      | 30.19    | 10    | 29.79   | 12    | 4,507           | 6.3             | 29                | ne.        | 27    |
| Charleston.....       | 29.98      | 30.20    | 4     | 29.81   | 12    | 8,095           | 11.2            | 40                | ne.        | 8     |
| Charlotte, N. C.....  | 29.99      | 30.24    | 10    | 29.80   | 12    | 4,280           | 5.9             | 26                | nw.        | 24    |
| Columbia.....         | 29.97      | 30.20    | 10    | 29.76   | 12    | 4,692           | 6.5             | 20                | e.         | 8     |
| Savannah, Ga.....     | 29.99      | 30.19    | 4     | 29.81   | 12    | 5,191           | 7.2             | 30                | e.         | 8     |
| Wilmington, N. C..... | 29.97      | 30.19    | 10    | 29.78   | 8     | 5,669           | 8.0             | 31                | nw.        | 24    |
| Averages.....         | 29.98      | 30.24    | 10    | 29.76   | 12    | 5,406           | 7.5             | 40                | ne.        | 8     |

**MISCELLANEOUS PHENOMENA (with dates).**

Earthquake.—Summerville, slight on the 3rd at 7 p. m.  
Lunar Halos.—Charleston 14; Little Mountain 13th; Stateburg 13, 14th.  
Fogs, Dense.—Blackville 19, 21st; Bowman 19, 20, 21st;



Darlington, Society Hill 26th; Seivern 2, 13, 15, 20, 21, 22nd; Walterboro 19, 20th.

Thunderstorms.—Barksdale 3, 7, 22nd; Beaufort 8, 12, 13, 16, 17, 22, 24, 25, 27, 28th; Blackville 12, 17, 18, 22, 28th; Bowman 13, 18, 27th; Darlington 25th; Florence 12th; Liberty 3, 6, 14, 15, 16, 17, 18, 19, 20, 21, 24th; Santuc 12, 22nd; Seivern 23, 28th; Stateburg 12, 26, 28th; Summerville 13, 16, 18, 19, 23, 25, 27th, Trenton 3, 12, 14, 17, 22, 27, 28th; Winthrop College 12, 27th; Yorkville 12, 22, 27th.

Summarized, there were 61 thunderstorms reported as having occurred on 21 dates, as follows: 3 on the 3rd, 1 on the 6th, 1 on the 7th, 1 on the 8th, 8 on the 12th, 3 on the 13th, 2 on the 14th, 1 on the 15th, 4 on the 16th, 4 on the 17th, 4 on the 18th, 2 on the 19th, 1 on the 20th, 1 on the 21st, 6 on the 22nd, 2 on the 23rd, 2 on the 24th, 3 on the 25th, 1 on the 26th, 6 on the 27th, and 5 on the 28th.

In addition to the above, Charleston reported thunderstorms on the 1, 12, 25, 27, 28th; Columbia on the 12, 18, 22, 26, 28th.

#### ERRATA.

In the May number, on pages 5 and 8, Walterboro total precipitation 5.91 should be 6.41; page 6, Dillon minimum on 13th 63, should be 66, and mean minimum 64.7, should be 64.8; Heath Springs mean minimum 62.0 should be 63.0; Trial mean maximum 83.9, should be 83.8; Yorkville mean minimum 63.4, should be 63.1.

#### NOTES.

The first cotton bloom of the season was reported from Beaufort on June 1st.

The cooperative observer at Newberry noted that at noon of the 19th, Venus was plainly visible to the naked eye.

#### NOCTURNAL COOLING.

The following is an extract of an article in the Monthly Weather Review for April, 1905, by S. Tetsu Tamura, on the nocturnal cooling of the atmosphere. " \* \* One of the first who observed the cooling of bodies exposed during the night in the open field, under a clear sky and calm atmosphere, was Patrick Wilson, of Glasgow. His observations were made about 1783 by means of two thermometers, one placed on the snow, the other freely suspended at the height of four feet. On one of these nights the lower thermometer, under a perfectly clear sky, marked  $-21.7^{\circ}$  F., while the other marked  $-15.0^{\circ}$  F. The difference of six degrees diminished rapidly when clouds appeared on the horizon and entirely vanished when the sky was completely covered; the two thermometers then had the same reading,  $-13.7^{\circ}$  F. Wilson was also the first to show that the effect of the radiation of bodies toward the sky is sensibly the same at all temperatures; so that in nights equally calm and serene the same substance is always cooled to the same extent, whatever may be the temperature of the atmosphere.

"Some years later Six found that a thermometer on the grass of a meadow during calm and clear nights continued several degrees lower than another perfectly similar thermometer suspended at the height of five or six feet, the difference between the two amounting sometimes to  $7.5^{\circ}$  F.

"At the beginning of the nineteenth century, Wells performed a long series of experiments on the nocturnal cooling of bodies, by placing thermometers in contact with the ground and leaves of plants, or by enveloping them with wool, cotton, and other substances. These thermometers placed at a small distance from the earth's surface, gave a fall of  $4.5^{\circ}$  F. and even  $7.8^{\circ}$  F. below a thermometer without any envelope suspended at the height of four feet.

"The experiments of Wells were repeated by many observers and notably by M. Pouillet. He inserted one of the thermometers into swansdown contained in a vessel placed on the ground and left the other thermometer at the height of four feet. The lower thermometer, on certain nights, fell  $8^{\circ}$  or  $9^{\circ}$  F. below the upper one."

#### REMARKS BY OBSERVERS.

BARKSDALE.—All crops were doing well at close of month, except that worms were damaging early corn. Fields were cleaned of grass and weeds during the month. BATESBURG.—Crops were damaged by drought. Corn turned yellow, peas died and gardens were parched. Insects injured cotton. BEAUFORT.—Mean temperature was  $0.4^{\circ}$  above normal, and precipitation 2.76 inches less than normal. BOWMAN.—June was generally favorable for farm work, and fields were cleaned of grass and weeds that seriously threatened crops, caused by the excessive precipitation of May. The month ended with crop conditions much improved. DARLINGTON.—A very dry month; deficiency was harmful after the heavy rains of May, but the month was favorable for cultivation. Cotton did well, but there was not enough rain for corn. DILLON.—June began with better weather than the previous month, as the rains ceased and crops began to improve, and continued to do so throughout the month. HEATH SPRINGS.—Weather extremely dry throughout the month, there having been less than half an inch of rain. Old corn was seriously damaged; young corn may recover. Cotton remained small, but became well fruited. LIBERTY.—Dry month. There were many cloudy days, with numerous local showers, and in such localities crops are fine; in dry sections crops are small but clean. Cotton blooms abundant. Corn reached the silk and tassel stage of growth. NEWBERRY.—Very dry month. Crops are generally clean. Cotton remained small. Early planted corn very poor. Later plantings did well. SANTUC.—June was a month of many high winds, a small amount of precipitation, many partly cloudy days and few thunderstorms. It was unfavorable on vegetation which made slow progress. SOCIETY HILL.—Cotton and tobacco improved but did not attain an average condition. Corn remained very poor. The precipitation was less than that for any June in the last fourteen years. STATEBURG.—The dry weather was favorable at the beginning of the month in ridding field crops of grass and weeds, but drought became prolonged and became serious and detrimental to crops, especially corn and there will be scarcely half an average yield in this neighborhood. Cotton that was cleaned early and put in condition, did well, but a considerable portion was unavoidably injured in ridding it of grass, and remains stunted and unpromising. SUMMERVILLE.—The drought of the first part of the month was greatly relieved by numerous showers during the last two weeks. TRENTON.—Precipitation 2.81 inches less than the average of June, and 5.98 inches less than the average for the first six months of the year. YORKVILLE.—There were few thunderstorms and very little rain during the month.



## CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1905.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                             | Sky.               |                    |                            |                     | Prevailing direction of wind. | Observers.             |
|---------------------------------------|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|------------------------|
|                                       |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, (unmelted.) | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. |                               |                        |
| Aiken.                                | Aiken.        | 565             | 21                      | 80.8                               | +3.1                       | 98       | 26    | 60      | 10    | 29                       | 3.28   | -2.27                      | 1.38                  | 0                           | 5                  | 21                 | 0                          | 9                   | sw.                           | L. M. Coward.          |
| Allendale.                            | Barnwell.     | 186             | 17                      | 78.7                               | +2.8                       | 97       | 26    | 53      | 10    | 33                       | 3.26   | -2.17                      | 0.90                  | 0                           | 7                  | 20                 | 9                          | 1                   | e.                            | C. A. Glover.          |
| Anderson.                             | Anderson.     | 764             | 4                       | 78.7                               | +2.8                       | 97       | 26    | 53      | 10    | 33                       | 3.26   | -2.17                      | 0.90                  | 0                           | 7                  | 20                 | 9                          | 1                   | e.                            | H. H. Russell.         |
| Augusta, Ga.                          | Richmond.     | 131             | 34                      | 80.2                               | +1.4                       | 98       | 12    | 60      | 10    | 27                       | 3.72   | 0.88                       | 1.61                  | 0                           | 10                 | 14                 | 15                         | 1                   | se.                           | Weather Bureau.        |
| Barksdale.                            | Laurens.      | 280             | 4                       | 79.0                               | 0                          | 95       | 21    | 55      | 9     | 26                       | 2.24   | 0.82                       | 0                     | 0                           | 7                  | 17                 | 7                          | 1                   | w.                            | J. T. Garrett.         |
| Batesburg.                            | Lexington.    | 656             | 17                      | 80.2                               | +1.4                       | 98       | 27    | 56      | 10    | 33                       | 0.47   | -3.19                      | 0.29                  | 0                           | 3                  | 15                 | 6                          | 9                   | n.                            | E. J. Hite.            |
| Beaufort.                             | Beaufort.     | 28              | 19                      | 80.0                               | -0.4                       | 96       | 24    | 62      | 3     | 22                       | 2.32   | -2.76                      | 0.94                  | 0                           | 7                  | 19                 | 8                          | 3                   | s.                            | S. M. Benton.          |
| Bennettsville.                        | Marlboro.     | 4               | 4                       | 81.0                               | +0.9                       | 99       | *22   | 54      | 10    | 34                       | 2.41   | -2.84                      | 1.10                  | 0                           | 7                  | 15                 | 0                          | 15                  | sw.                           | Jno. L. McCall.        |
| Blackville.                           | Barnwell.     | 296             | 17                      | 81.0                               | +0.9                       | 99       | *22   | 54      | 10    | 34                       | 2.41   | -2.84                      | 1.10                  | 0                           | 7                  | 15                 | 0                          | 15                  | sw.                           | G. D. C. Lange.        |
| Bowman.                               | Orangeburg.   | 160             | 4                       | 79.3                               | 0                          | 98       | *7    | 54      | 10    | 33                       | 2.33   | 0.66                       | 1.08                  | 0                           | 5                  | 21                 | 9                          | 0                   | w.                            | B. O. Evans.           |
| Calhoun Falls.                        | Abbeville.    | 508             | 12                      | 79.0                               | 0                          | 98       | 21    | 55      | 9     | 26                       | 2.24   | -3.35                      | 0.36                  | 0                           | 3                  | 23                 | 0                          | 7                   | sw.                           | P. J. Pfeiffer.        |
| Camden.                               | Kershaw.      | 222             | 39                      | 79.0                               | -0.1                       | 97       | 24    | 66      | 9     | 19                       | 2.43   | -4.61                      | 0.26                  | 0                           | 2                  | 16                 | 13                         | 1                   | e.                            | J. C. Whitaker.        |
| Charleston.                           | Charleston.   | 48              | 36                      | 79.0                               | -0.1                       | 97       | 24    | 66      | 9     | 19                       | 2.43   | -3.22                      | 1.52                  | 0                           | 8                  | 12                 | 14                         | 4                   | e.                            | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 27                      | 77.4                               | +1.6                       | 95       | 20    | 55      | 9     | 23                       | 0.59   | -4.00                      | 0.28                  | 0                           | 6                  | 7                  | 16                         | 7                   | sw.                           | Weather Bureau.        |
| Cheraw (1).                           | Chesterfield. | 144             | 17                      | 77.6                               | -0.8                       | 98       | 24    | 55      | *9    | 27                       | 1.18   | -3.91                      | 0.31                  | 0                           | 8                  | 10                 | 11                         | 9                   | e.                            | W. R. Godfrey.         |
| Cheraw (2).                           | Edgefield.    | 144             | 12                      | 79.2                               | 0                          | 96       | *12   | 55      | 10    | 36                       | 2.55   | -4.77                      | 0.33                  | 0                           | 9                  | 13                 | 16                         | 1                   | e.                            | Jno. H. Powe.          |
| Clarks Hill.                          | Oconee.       | 456             | 3                       | 79.2                               | 0                          | 96       | *12   | 55      | 10    | 36                       | 2.55   | -4.77                      | 0.33                  | 0                           | 9                  | 13                 | 16                         | 1                   | e.                            | Wm. S. Middleton.      |
| Clemson College.                      | Richland.     | 850             | 14                      | 77.5                               | +0.4                       | 93       | 26    | 53      | 10    | 29                       | 1.07   | -4.69                      | 0.47                  | 0                           | 5                  | 20                 | 7                          | 3                   | s.                            | Jno. N. Hook.          |
| Columbia.                             | Richland.     | 351             | 18                      | 79.7                               | +0.7                       | 97       | 26    | 58      | 10    | 27                       | 0.86   | -3.30                      | 0.55                  | 0                           | 5                  | 11                 | 15                         | 4                   | e.                            | Central Office.        |
| Conway.                               | Horry.        | 25              | 14                      | 77.2                               | 0                          | 95       | 8     | 54      | 10    | 31                       | 3.65   | -1.16                      | 1.60                  | 0                           | 8                  | 24                 | 4                          | 2                   | s.                            | McQ. Quattlebaum.      |
| Darlington.                           | Darlington.   | 175             | 10                      | 77.0                               | 0                          | 100      | 24    | 51      | 10    | 37                       | 1.62   | -4.62                      | 0.79                  | 0                           | 4                  | 12                 | 18                         | 0                   | .....                         | Robt. E. James.        |
| Dillon.                               | Marion.       | 100             | 1                       | 78.6                               | 0                          | 100      | 24    | 51      | 10    | 36                       | 3.49   | 2.01                       | 0                     | 8                           | .....              | .....              | .....                      | .....               | .....                         | A. E. Rowell.          |
| Due West.                             | Abbeville.    | 740             | 4                       | 78.6                               | 0                          | 96       | *22   | 57      | 10    | 27                       | 3.51   | 1.85                       | 0                     | 5                           | 13                 | 6                  | 11                         | w.                  | Rev. O. Y. Bonner.            |                        |
| Edisto.                               | Bamberg.      | 127             | 12                      | 79.0                               | 0                          | 100      | 24    | 51      | 10    | 37                       | 1.62   | -3.66                      | 0.81                  | 0                           | 4                  | 21                 | 5                          | 4                   | w.                            | Mrs. M. Thompson.      |
| Ellingham.                            | Florence.     | 106             | 13                      | 79.0                               | 0                          | 100      | 24    | 51      | 10    | 37                       | 1.62   | -2.30                      | 0.90                  | 0                           | 5                  | 25                 | 1                          | 4                   | sw.                           | H. B. McCall.          |
| Enoree.                               | Spartanburg.  | 987             | 0                       | 79.0                               | 0                          | 100      | 24    | 51      | 10    | 37                       | 1.62   | -2.30                      | 0.90                  | 0                           | 5                  | 20                 | 4                          | 6                   | sw.                           | E. P. Porter.          |
| Florence.                             | Florence.     | 136             | 17                      | 78.9                               | -0.1                       | 100      | *23   | 51      | 10    | 36                       | 0.46   | 0.88                       | 1.55                  | 0                           | 7                  | 12                 | 10                         | 8                   | ne.                           | H. K. Gilbert.         |
| Gaffney.                              | Cherokee.     | 893             | 9                       | 80.6                               | 0                          | 100      | *7    | 54      | 10    | 36                       | 0.59   | -3.99                      | 0.35                  | 0                           | 5                  | 18                 | 8                          | 4                   | n.                            | B. F. Camp.            |
| Georgetown.                           | Georgetown.   | 12              | 12                      | 77.8                               | -1.1                       | 94       | 24    | 60      | *1    | 26                       | 2.11   | -4.01                      | 1.58                  | 0                           | 4                  | 18                 | 7                          | 5                   | ne.                           | Reid Whitford.         |
| Greenville.                           | Greenville.   | 989             | 13                      | 74.8                               | +0.7                       | 93       | 26    | 49      | 10    | 35                       | 1.95   | -3.39                      | 0.73                  | 0                           | 7                  | 17                 | 4                          | 9                   | sw.                           | Mrs. S. A. Crittenden. |
| Greenwood.                            | Greenwood.    | 671             | 17                      | 79.0                               | +0.4                       | 96       | 22    | 57      | 10    | 32                       | 3.05   | -1.08                      | 1.75                  | 0                           | 6                  | 18                 | 5                          | 7                   | w.                            | M. M. Calhoun.         |
| Heath Springs.                        | Lancaster.    | 4               | 79.0                    | 0                                  | 99                         | *22      | 50    | 9       | 30    | 2.40                     | 0.22   | 0                          | 5                     | 17                          | 8                  | 5                  | w.                         | J. A. Weaver.       |                               |                        |
| Kingstree (1).                        | Williamsburg. | 54              | 17                      | 79.9                               | +1.3                       | 96       | 25    | 61      | *9    | 25                       | 2.09   | -2.95                      | 1.68                  | 0                           | 3                  | 21                 | 3                          | 6                   | ne.                           | J. A. Scott.           |
| Kingstree (2).                        | Williamsburg. | 54              | 17                      | 79.9                               | +1.3                       | 96       | 25    | 61      | *9    | 25                       | 2.09   | -2.95                      | 1.68                  | 0                           | 3                  | 21                 | 3                          | 6                   | ne.                           | A. O. Matthews.        |
| Liberty.                              | Pickens.      | 900             | 11                      | 79.0                               | +1.8                       | 96       | *11   | 50      | 10    | 39                       | 2.55   | -2.44                      | 1.50                  | 0                           | 5                  | 12                 | 17                         | 1                   | e.                            | Jno. T. Boggs.         |
| Little Mountain.                      | Newberry.     | 711             | 12                      | 80.2                               | +1.4                       | 99       | 26    | 56      | *9    | 35                       | 0.17   | -4.30                      | 0.06                  | 0                           | 4                  | 11                 | 18                         | 1                   | sw.                           | John M. Sease, M. D.   |
| Lugoff.                               | Kershaw.      | 168             | 4                       | 80.6                               | +3.2                       | 100      | *12   | 53      | 10    | 36                       | 0.35   | -3.79                      | 0.16                  | 0                           | 6                  | 12                 | 13                         | 5                   | e.                            | W. J. Burdell, M. D.   |
| Newberry.                             | Newberry.     | 502             | 1                       | 80.6                               | +3.2                       | 100      | *12   | 53      | 10    | 36                       | 0.35   | -3.79                      | 0.16                  | 0                           | 6                  | 12                 | 13                         | 5                   | e.                            | W. G. Peterson.        |
| Pelzer.                               | Anderson.     | 873             | 0                       | 75.6                               | +0.6                       | 92       | 24    | 59      | 10    | 33                       | 0.75   | -0.75                      | 0.28                  | 0                           | 4                  | 15                 | 4                          | 11                  | w.                            | John M. Ward.          |
| Pinopolis.                            | Berkeley.     | 54              | 12                      | 75.6                               | +0.6                       | 92       | 24    | 59      | 10    | 33                       | 0.75   | -0.75                      | 0.28                  | 0                           | 4                  | 15                 | 4                          | 11                  | w.                            | E. P. Ravenel.         |
| St. Georges.                          | Dorchester.   | 109             | 17                      | 78.9                               | +0.7                       | 98       | 24    | 57      | 10    | 33                       | 0.20   | -5.28                      | 0.20                  | 0                           | 1                  | 28                 | 0                          | 2                   | .....                         | W. B. Raysor.          |
| St. Matthew.                          | Orangeburg.   | 269             | 17                      | 77.5                               | -1.5                       | 95       | 25    | 58      | 10    | 30                       | 1.38   | -3.92                      | 0.48                  | 0                           | 6                  | 23                 | 0                          | 7                   | .....                         | J. S. Wannamaker.      |
| St. Stephen.                          | Berkeley.     | 73              | 13                      | 79.0                               | 0                          | 99       | *22   | 50      | 9     | 30                       | 2.40   | -2.20                      | 1.15                  | 0                           | 8                  | 16                 | 4                          | 10                  | s.                            | C. T. Shuler.          |
| Saluda.                               | Saluda.       | 536             | 4                       | 79.6                               | 0                          | 99       | *12   | 50      | 10    | 39                       | 1.27   | 0.68                       | 0                     | 7                           | 21                 | 6                  | 3                          | w.                  | Alvin Etheridge.              |                        |
| Santuc.                               | Union.        | 512             | 12                      | 79.2                               | +2.5                       | 98       | *22   | 54      | 10    | 31                       | 0.63   | -3.25                      | 0.45                  | 0                           | 4                  | 11                 | 16                         | 3                   | w.                            | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham.      | 71              | 36                      | 79.7                               | +0.4                       | 97       | 26    | 65      | 10    | 27                       | 2.46   | -4.15                      | 1.25                  | 0                           | 6                  | 7                  | 16                         | 7                   | e.                            | Weather Bureau.        |
| Seivern.                              | Aiken.        | 482             | 4                       | 78.0                               | -0.8                       | 100      | 12    | 43      | 10    | 37                       | 3.08   | -1.09                      | 1.23                  | 0                           | 6                  | 4                  | 18                         | 8                   | ne.                           | Geo. C. Gunter.        |
| Smiths Mills.                         | Williamsburg. | 62              | 10                      | 79.4                               | +2.2                       | 98       | 24    | 56      | 9     | 29                       | 0.58   | -4.09                      | 1.10                  | 0                           | 4                  | 26                 | 0                          | 4                   | w.                            | H. van Keulen.         |
| Society Hill.                         | Darlington.   | 192             | 14                      | 79.4                               | +2.2                       | 98       | 24    | 56      | 9     | 29                       | 0.58   | -5.00                      | 0.36                  | 0                           | 5                  | 19                 | 9                          | 2                   | ne.                           | J. J. Lucas.           |
| Spartanburg.                          | Spartanburg.  | 875             | 14                      | 78.8                               | +0.8                       | 97       | *7    | 52      | 10    | 35                       | 1.01   | -3.33                      | 0.29                  | 0                           | 7                  | 18                 | 1                          | 11                  | .....                         | F. P. Robinson.        |
| Stateburg.                            | Sumter.       | 500             | 28                      | 79.8                               | +2.7                       | 98       | *24   | 58      | *9    | 29                       | 0.81   | -3.43                      | 0.37                  | 0                           | 5                  | 10                 | 13                         | 7                   | sw.                           | W. W. Anderson, M. D.  |
| Summerville.                          | Dorchester.   | 75              | 8                       | 77.4                               | +0.7                       | 97       | 24    | 58      | 10    | 29                       | 2.12   | -5.75                      | 1.00                  | 0                           | 9                  | 16                 | 10                         | 4                   | se.                           | Miss E. H. Gadsden.    |
| Sumter.                               | Sumter.       | 169             | 4                       | 79.0                               | 0                          | 99       | *22   | 50      | 9     | 30                       | 2.40   | 0.22                       | 0                     | 5                           | 17                 | 8                  | 5                          | w.                  | Wm. D. Shaw.                  |                        |
| Trenton.                              | Edgefield.    | 620             | 12                      | 79.0                               | -0.5                       | 97       | *12   | 56      | 10    | 35                       | 1.51   | -2.81                      | 1.08                  | 0                           | 4                  | 20                 | 10                         | 0                   | s.                            | C. A. Long.            |
| Trial.                                | Berkeley.     | 85              | 19                      | 78.2                               | +1.4                       | 97       | 24    | 52      | 10    | 34                       | 3.06   | -2.87                      | 1.60                  | 0                           | 8                  | 11                 | 14                         | 5                   | ne.                           | Etsell Gaillard.       |
| Walhalla.                             | Oconee.       | 1061            | 14                      | 76.6                               | +1.3                       | 95       | 26    | 51      | 10    | 32                       | 6.30   | +1.38                      | 5.25                  | 0                           | 7                  | 14                 | 13                         | 3                   | se.                           | L. E. Isbell.          |
| Walterboro.                           | Colleton.     | 2               | 2                       | 79.2                               | 0                          | 100      | 25    | 56      | 2     | 26                       | 1.71   | 0.94                       | 0                     | 7                           | 23                 | 5                  | 2                          | e.                  | J. A. Westerberg.             |                        |
| Wilmington, N. C.                     | New Hanover.  | 52              | 36                      | 75.8                               | -0.9                       | 95       | 24    | 55      | 2     | 26                       | 1.73   | -3.97                      | 1.46                  | 0                           | 9                  | 7                  | 22                         | 1                   | sw.                           | Weather Bureau.        |
| Winnboro.                             | Fairfield.    | 545             | 16                      | 79.4                               | +2.9                       | 99       | 25    | 57      | 10    | 30                       | 0.49   | -3.66                      | 0.43                  | 0                           | 2                  | 9                  | 21                         | 0                   | sw.                           | John W. Seigler.       |
| Winthrop College.                     | York.         | 690             | 6                       | 78.0                               | +1.2                       | 97       | *20   | 53      | 10    | 33                       | 0.92   | -3.65                      | 0.56                  | 0                           | 6                  | 19                 | 11                         | 0                   | sw.                           | Geo. B. Green.         |
| Yemassee.                             | Beaufort.     | 23              | 10                      | 78.6                               | -2.5                       | 98       | 24    | 59      | 10    | 31                       | 3.20   | -2.39                      | 1.09                  | 0                           | 8                  | 20                 | 1                          | 9                   | .....                         | J. G. Hutson.          |
| Yorkville.                            | York.         | 680             | 17                      | 80.3                               | +3.2                       | 101      | 22    | 56      | *9    | 31                       | 1.56   | -3.43                      | 0.78                  | 0                           | 5                  | 0                  | 24                         | 6                   | se.                           | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 78.9                               | +0.9                       | 101      | 22    | 43      | 10    | 40                       | 1.92   | -3.28                      | 5.25                  | 0                           | 6                  | 14                 | 10                         | 6                   | e.                            | .....                  |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.



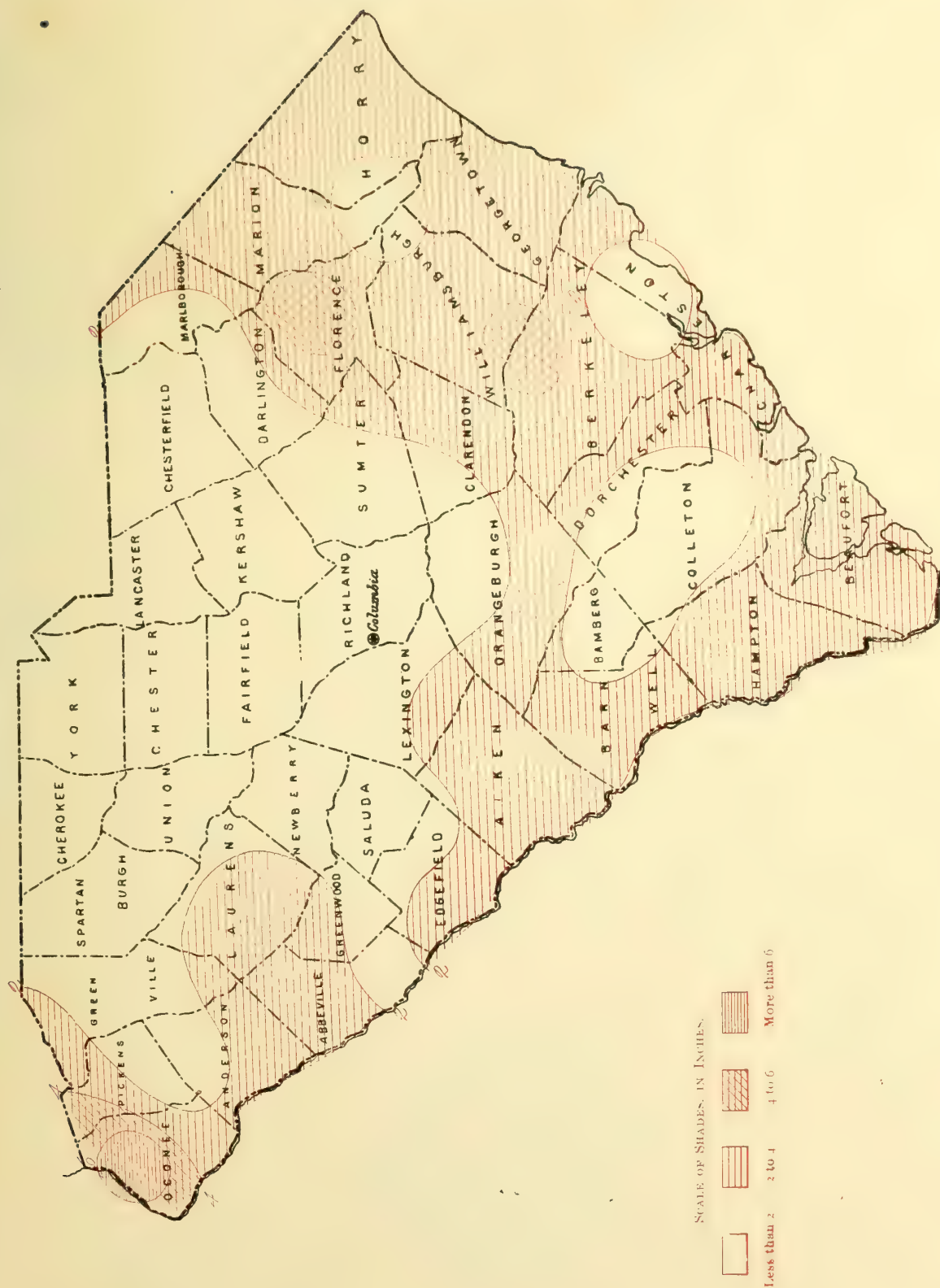
## STATIONS.

| STATIONS.             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Monthly mean. |      |    |    |    |
|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------|------|----|----|----|
| 1                     | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Min.          | Max. |    |    |    |
| Alken.....            | 86 | 67 | 85 | 64 | 87 | 62 | 88 | 65 | 84 | 68 | 62 | 86 | 63 | 93 | 67 | 90 | 72 | 74 | 89 | 73 | 91 | 70 | 93 | 73 | 92 | 70 | 93 | 74 | 91 | 70 | 93            | 73   | 92 | 70 | 93 |
| Allendale*.....       | 84 | 62 | 84 | 61 | 88 | 58 | 82 | 61 | 86 | 61 | 85 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88            | 60   | 88 | 60 | 88 |
| Anderson.....         | 84 | 62 | 85 | 65 | 87 | 63 | 89 | 67 | 93 | 67 | 94 | 68 | 96 | 73 | 93 | 72 | 84 | 62 | 87 | 60 | 92 | 71 | 90 | 66 | 88 | 60 | 92 | 71 | 90 | 66 | 88            | 60   | 92 | 71 | 90 |
| Augusta, Ga.....      | 82 | 60 | 83 | 62 | 82 | 64 | 86 | 68 | 89 | 70 | 92 | 73 | 94 | 75 | 90 | 70 | 89 | 73 | 90 | 70 | 89 | 73 | 90 | 70 | 89 | 73 | 90 | 70 | 89 | 73 | 90            | 70   | 89 | 73 | 90 |
| Barksdale.....        | 88 | 69 | 87 | 62 | 89 | 66 | 91 | 67 | 93 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Batesburg*.....       | 80 | 64 | 85 | 65 | 87 | 63 | 89 | 67 | 93 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Beaufort.....         | 88 | 69 | 87 | 62 | 89 | 66 | 91 | 67 | 93 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Bennettsville.....    | 80 | 64 | 85 | 65 | 87 | 63 | 89 | 67 | 93 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Blackville*.....      | 80 | 64 | 85 | 65 | 87 | 63 | 89 | 67 | 93 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Bowman.....           | 84 | 64 | 85 | 65 | 86 | 60 | 88 | 60 | 84 | 63 | 95 | 66 | 98 | 67 | 95 | 68 | 83 | 61 | 87 | 54 | 92 | 60 | 93 | 69 | 91 | 70 | 88 | 60 | 93 | 69 | 91            | 70   | 88 | 60 | 93 |
| Charleston.....       | 80 | 64 | 85 | 65 | 86 | 60 | 88 | 60 | 84 | 63 | 95 | 66 | 98 | 67 | 95 | 68 | 83 | 61 | 87 | 54 | 92 | 60 | 93 | 69 | 91 | 70 | 88 | 60 | 93 | 69 | 91            | 70   | 88 | 60 | 93 |
| Charlotte, N. C.....  | 80 | 64 | 85 | 65 | 86 | 60 | 88 | 60 | 84 | 63 | 95 | 66 | 98 | 67 | 95 | 68 | 83 | 61 | 87 | 54 | 92 | 60 | 93 | 69 | 91 | 70 | 88 | 60 | 93 | 69 | 91            | 70   | 88 | 60 | 93 |
| Cheraw (r)*.....      | 80 | 64 | 85 | 65 | 86 | 60 | 88 | 60 | 84 | 63 | 95 | 66 | 98 | 67 | 95 | 68 | 83 | 61 | 87 | 54 | 92 | 60 | 93 | 69 | 91 | 70 | 88 | 60 | 93 | 69 | 91            | 70   | 88 | 60 | 93 |
| Clemson College.....  | 80 | 64 | 85 | 65 | 86 | 60 | 88 | 60 | 84 | 63 | 95 | 66 | 98 | 67 | 95 | 68 | 83 | 61 | 87 | 54 | 92 | 60 | 93 | 69 | 91 | 70 | 88 | 60 | 93 | 69 | 91            | 70   | 88 | 60 | 93 |
| Columbia.....         | 82 | 66 | 84 | 50 | 88 | 66 | 89 | 67 | 93 | 68 | 94 | 70 | 96 | 71 | 90 | 72 | 80 | 59 | 85 | 58 | 92 | 61 | 95 | 62 | 97 | 65 | 88 | 60 | 86 | 70 | 92            | 70   | 92 | 61 | 95 |
| Conway*.....          | 87 | 60 | 87 | 56 | 90 | 58 | 92 | 67 | 91 | 66 | 94 | 70 | 96 | 71 | 90 | 72 | 80 | 59 | 85 | 58 | 92 | 61 | 95 | 62 | 97 | 65 | 88 | 60 | 86 | 70 | 92            | 70   | 92 | 61 | 95 |
| Darlington.....       | 81 | 64 | 84 | 57 | 88 | 62 | 90 | 64 | 94 | 67 | 97 | 68 | 99 | 70 | 94 | 70 | 82 | 57 | 91 | 51 | 92 | 62 | 97 | 65 | 88 | 60 | 86 | 70 | 92 | 70 | 92            | 61   | 95 | 86 | 95 |
| Dillon.....           | 76 | 60 | 76 | 53 | 81 | 57 | 83 | 68 | 80 | 86 | 71 | 90 | 75 | 88 | 64 | 70 | 82 | 55 | 86 | 64 | 70 | 82 | 55 | 86 | 64 | 70 | 82 | 55 | 86 | 64 | 70            | 82   | 55 | 86 | 64 |
| Durham.....           | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Due West.....         | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Florence*.....        | 81 | 64 | 84 | 57 | 88 | 62 | 90 | 64 | 94 | 67 | 97 | 68 | 99 | 70 | 94 | 70 | 82 | 57 | 91 | 51 | 92 | 62 | 97 | 65 | 88 | 60 | 86 | 70 | 92 | 70 | 92            | 61   | 95 | 86 | 95 |
| Gaffney*.....         | 87 | 60 | 87 | 56 | 90 | 58 | 92 | 67 | 91 | 66 | 94 | 70 | 96 | 71 | 90 | 72 | 80 | 59 | 85 | 58 | 92 | 61 | 95 | 62 | 97 | 65 | 88 | 60 | 86 | 70 | 92            | 70   | 92 | 61 | 95 |
| Georgetown.....       | 78 | 60 | 78 | 53 | 81 | 57 | 83 | 68 | 80 | 86 | 71 | 90 | 75 | 88 | 64 | 70 | 82 | 55 | 86 | 64 | 70 | 82 | 55 | 86 | 64 | 70 | 82 | 55 | 86 | 64 | 70            | 82   | 55 | 86 | 64 |
| Greenville*.....      | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Greenwood*.....       | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Heath's Springs.....  | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Kingsreef(r)*.....    | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Liberty.....          | 84 | 60 | 88 | 60 | 88 | 59 | 89 | 61 | 93 | 66 | 94 | 70 | 95 | 67 | 91 | 64 | 80 | 64 | 80 | 59 | 66 | 91 | 64 | 80 | 64 | 80 | 59 | 66 | 91 | 64 | 80            | 64   | 80 | 59 | 66 |
| Little Mountain.....  | 83 | 65 | 80 | 58 | 85 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88 | 60 | 88            | 60   | 88 | 60 | 88 |
| Lugoff.....           | 83 | 67 | 88 | 58 | 90 | 63 | 91 | 67 | 95 | 68 | 95 | 68 | 99 | 67 | 92 | 67 | 82 | 58 | 89 | 53 | 93 | 64 | 0  | 70 | 94 | 78 | 94 | 78 | 94 | 78 | 94            | 78   | 94 | 78 | 94 |
| Newberry*.....        | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Norfolk.....          | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| St. Georges*.....     | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| St. Matthews*.....    | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Saluda.....           | 83 | 65 | 87 | 56 | 80 | 63 | 91 | 62 | 93 | 66 | 94 | 67 | 95 | 68 | 94 | 66 | 82 | 57 | 80 | 50 | 94 | 67 | 99 | 72 | 94 | 68 | 93 | 67 | 92 | 67 | 92            | 67   | 92 | 67 | 92 |
| Santee.....           | 81 | 62 | 84 | 56 | 80 | 68 | 84 | 68 | 94 | 67 | 97 | 67 | 97 | 67 | 97 | 67 | 97 | 67 | 97 | 67 | 97 | 67 | 97 | 67 | 97 | 67 | 97 | 67 | 97 | 67 | 97            | 67   | 97 | 67 | 97 |
| Savannah, Ga.....     | 86 | 60 | 86 | 59 | 84 | 67 | 95 | 68 | 88 | 67 | 95 | 68 | 94 | 74 | 76 | 66 | 81 | 55 | 86 | 67 | 90 | 87 | 74 | 63 | 55 | 86 | 67 | 90 | 87 | 74 | 63            | 55   | 86 | 67 |    |
| Savertown*.....       | 86 | 60 | 86 | 59 | 84 | 67 | 95 | 68 | 88 | 67 | 95 | 68 | 94 | 74 | 76 | 66 | 81 | 55 | 86 | 67 | 90 | 87 | 74 | 63 | 55 | 86 | 67 | 90 | 87 | 74 | 63            | 55   | 86 | 67 |    |
| Shelby.....           | 80 | 64 | 85 | 65 | 88 | 64 | 89 | 65 | 90 | 68 | 92 | 70 | 94 | 78 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94 | 71 | 90 | 74 | 97 | 73 | 96 | 68 | 94            | 71   | 90 | 74 | 97 |
| Spartanburg*.....     | 82 | 60 | 85 | 58 | 88 | 60 | 92 | 64 | 94 | 68 | 94 | 67 | 97 | 67 | 97 | 67 | 81 | 55 | 87 | 57 | 93 | 65 | 96 | 68 | 93 | 61 | 68 | 90 | 61 | 68 | 90            | 61   | 68 | 90 |    |
| Statenburg.....       | 83 | 65 | 83 | 61 | 85 | 60 | 88 | 62 | 93 | 66 | 94 | 67 | 95 | 68 | 94 | 66 | 82 | 57 | 80 | 50 | 94 | 67 | 99 | 72 | 94 | 68 | 93 | 67 | 92 | 67 | 92            | 67   | 92 | 67 | 92 |
| Summerville.....      | 81 | 64 | 80 | 59 | 85 | 60 | 84 | 62 | 86 | 64 | 91 | 65 | 93 | 64 | 91 | 65 | 93 | 64 | 91 | 65 | 93 | 64 | 91 | 65 | 93 | 64 | 91 | 65 | 93 | 64 | 91            | 65   | 93 | 64 | 91 |
| Sumter.....           | 85 | 68 | 86 | 63 | 85 | 62 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85 | 63 | 85            | 63   | 85 | 63 | 85 |
| Trenton.....          | 82 | 65 | 84 | 57 | 80 | 68 | 82 | 61 | 84 | 65 | 87 | 63 | 91 | 69 | 81 | 62 | 86 | 59 | 81 | 59 | 93 | 66 | 92 | 70 | 94 | 78 | 94 | 78 | 94 | 78 | 94            | 78   | 94 | 78 | 94 |
| Trial.....            | 82 | 65 | 84 | 57 | 80 | 68 | 82 | 61 | 84 | 65 | 87 | 63 | 91 | 69 | 81 | 62 | 86 | 59 | 81 | 59 | 93 | 66 | 92 | 70 | 94 | 78 | 94 | 78 | 94 | 78 | 94            | 78   | 94 | 78 | 94 |
| Wahalla.....          | 82 | 65 | 84 | 57 | 80 | 68 | 82 | 61 | 84 | 65 | 87 | 63 | 91 | 69 | 81 | 62 | 86 | 59 | 81 | 59 | 93 | 66 | 92 | 70 | 94 | 78 | 94 | 78 | 94 | 78 | 94            | 78   | 94 | 78 | 94 |
| Walterboro.....       | 82 | 65 | 84 | 57 | 80 | 68 | 82 | 61 | 84 | 65 | 87 | 63 | 91 | 69 | 81 | 62 | 86 | 59 | 81 | 59 | 93 | 66 | 92 | 70 | 94 | 78 | 94 | 78 | 94 | 78 | 94            | 78   | 94 | 78 | 94 |
| Washington, N. C..... | 82 | 65 | 84 | 57 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |               |      |    |    |    |

0, 1, 2, 3, etc., mean respectively 100, 101, 102, 103, etc.



# TOTAL PRECIPITATION FOR JUNE, 1905.



SCALE OF SHADES, IN INCHES.

|             |        |        |             |
|-------------|--------|--------|-------------|
| Less than 2 | 2 to 4 | 4 to 6 | More than 6 |
|-------------|--------|--------|-------------|



| STATIONS.        | Day of Month. |     |     |   |     |   |     |   |   |    |    |     |     |     |     |     |     |      |     |     |    |     |      |     |     |     |     |      |      |      |      |     |  | Total. |
|------------------|---------------|-----|-----|---|-----|---|-----|---|---|----|----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|-----|------|-----|-----|-----|-----|------|------|------|------|-----|--|--------|
|                  | 1             | 2   | 3   | 4 | 5   | 6 | 7   | 8 | 9 | 10 | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18   | 19  | 20  | 21 | 22  | 23   | 24  | 25  | 26  | 27  | 28   | 29   | 30   | 31   |     |  |        |
| Aiken            |               |     |     |   |     |   |     |   |   |    |    |     |     |     |     |     |     |      |     |     |    |     |      |     |     |     |     |      |      |      |      |     |  |        |
| Allendale        |               |     |     |   |     |   |     |   |   |    |    |     |     |     |     |     |     |      |     |     |    |     |      |     |     |     |     |      |      |      |      |     |  |        |
| Anderson         | .40           |     |     |   |     |   |     |   |   |    |    |     |     |     |     |     |     |      |     |     |    |     |      |     |     |     |     |      |      |      |      |     |  |        |
| Augusta, Ga.     |               | .90 |     |   |     |   |     |   |   |    |    | .20 |     | .10 |     | .65 | .32 | .42  |     | .40 |    |     | T.   |     |     |     |     |      |      |      |      |     |  |        |
| Barksdale        |               | .01 |     |   |     |   | .01 |   |   |    |    | .08 | .39 |     |     | .17 | .44 | T.   |     |     |    | .52 |      | .11 |     |     |     | .38  | 1.61 | .17  | .60  |     |  |        |
| Batesburg        |               | .26 |     |   |     |   | .30 |   |   |    |    |     |     |     |     |     |     | T.   | .27 |     |    | .20 |      |     |     |     |     |      |      |      |      |     |  |        |
| Beaufort         |               |     |     |   |     |   | T.  |   |   |    |    | T.  |     |     |     | .29 | .12 | T.   | T.  |     |    |     |      |     |     |     |     |      | .06  | T.   | .25  | .82 |  |        |
| Bennettsville    |               |     |     |   |     |   |     |   |   |    |    | .94 |     |     |     |     |     | .45  | .03 |     |    |     | T.   |     | T.  |     |     |      | .02  | .62  | .23  | .03 |  |        |
| Blackville       |               |     |     |   |     |   |     |   |   |    |    | .01 | .10 |     |     |     |     | .07  | .01 |     |    |     | 1.08 |     |     |     |     |      | .04  | 1.10 |      |     |  |        |
| Bowman           |               |     |     |   |     |   |     |   |   |    |    | .68 | T.  |     |     |     | .10 | .35  |     |     |    |     |      |     |     | .12 |     | 1.08 | T.   |      |      |     |  |        |
| Calhoun Falls    |               |     |     |   |     |   |     |   |   |    |    |     |     |     |     | .18 |     |      |     |     |    | .36 |      |     |     |     |     |      |      |      |      |     |  |        |
| Canden           |               |     |     |   |     |   |     |   |   |    |    |     |     |     | .22 |     |     |      |     |     |    |     |      |     |     |     |     |      |      |      |      |     |  |        |
| Charleston       |               |     |     |   |     |   |     |   |   |    |    | .47 |     |     | .04 | .19 | .03 | .03  | T.  |     |    |     |      |     | T.  | T.  | .26 |      | .14  | .09  | 1.44 | T.  |  |        |
| Charlotte, N. C. |               | .07 |     |   |     |   | T.  |   |   |    |    | T.  |     | .28 |     | .06 | .14 | T.   |     |     |    |     |      |     | .02 |     |     |      | T.   | .02  | T.   |     |  |        |
| Cheraw(1)        | .08           |     | .01 |   |     |   |     |   |   |    |    |     | .04 |     | .19 | .08 | .14 | T.   |     |     |    |     |      |     |     |     | .30 |      |      |      |      |     |  |        |
| Cheraw(2)        | .08           |     | .02 |   | .01 |   |     |   |   |    |    | .01 | T.  | .18 | .09 |     |     |      | .17 |     |    |     |      |     |     |     |     |      |      |      |      |     |  |        |
| Clark's Hill     |               |     |     |   |     |   | .20 |   |   |    |    | .63 |     | .19 |     |     |     | 1.24 | T.  |     |    |     | .08  |     |     |     |     |      |      |      |      |     |  |        |
| Clemson College  |               |     |     |   |     |   |     |   |   |    |    | .03 |     |     |     | .20 |     | .27  |     |     |    | .47 | T.   |     |     |     |     |      |      |      |      |     |  |        |
| Conway           |               |     |     |   |     |   |     |   |   |    |    | .10 |     | .02 |     | T.  | .12 | .07  |     |     |    |     |      |     |     | T.  |     |      |      |      |      |     |  |        |
| Darlington       | 1.60          |     |     |   |     |   |     |   |   |    |    | .20 |     |     |     | .15 | .85 | .20  | .05 |     |    |     |      |     |     |     |     | .50  |      |      |      |     |  |        |
| Dillon           |               |     |     |   |     |   |     |   |   |    |    | .25 | .03 |     |     | T.  | T.  |      |     |     |    |     |      |     |     |     |     |      |      |      |      |     |  |        |
| Due West         |               |     |     |   |     |   |     |   |   |    |    | .02 | .42 |     | .05 | .60 |     | .    |     |     |    |     |      |     |     |     |     |      |      |      |      |     |  |        |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR JULY, 1905.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

J. W. BAUER,

SECTION DIRECTOR.



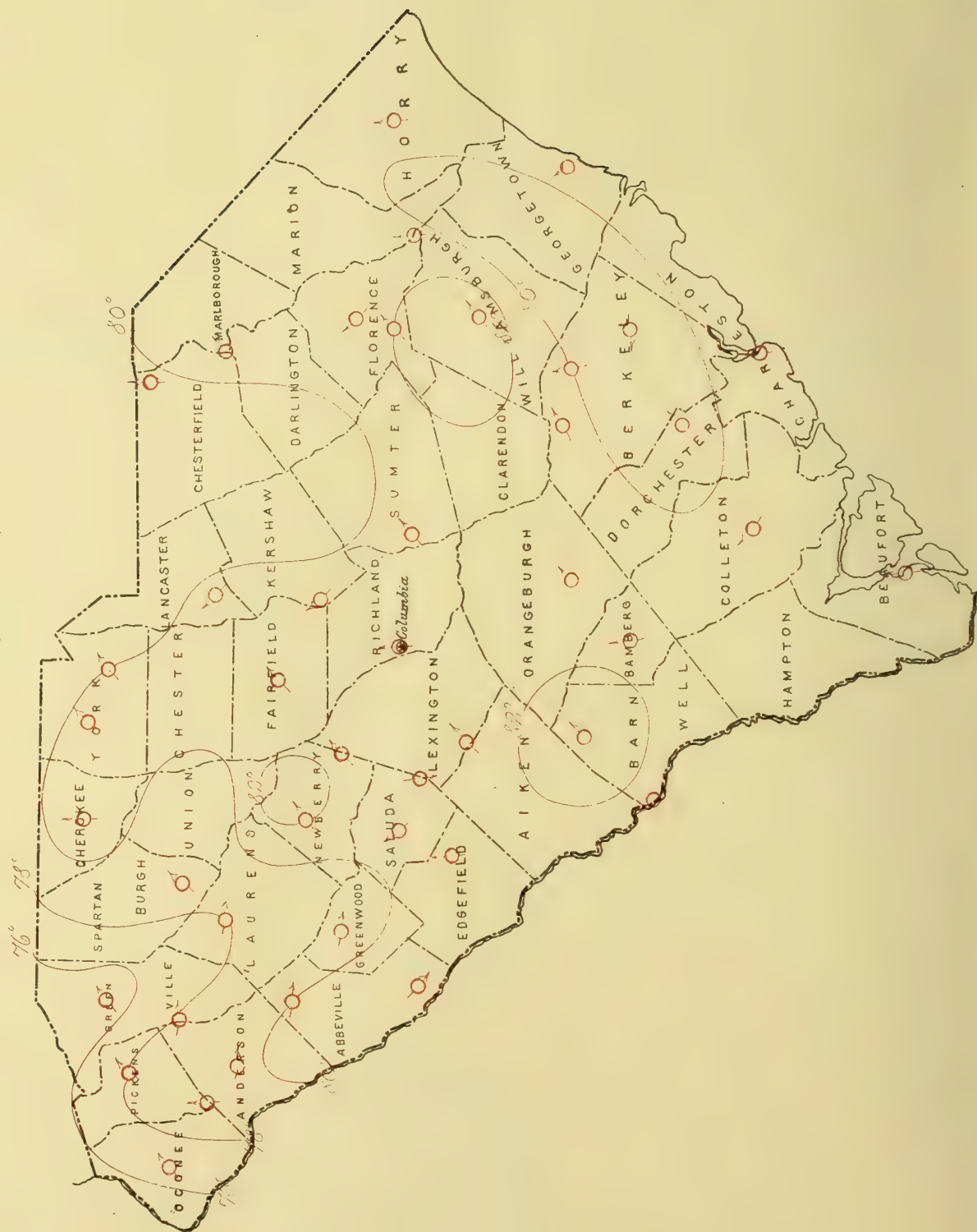
RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

AUGUST 29, 1905.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JULY, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.  
**CLIMATE AND CROP SERVICE**  
OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.  
J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., JULY, 1905. No. 7.

**PROGRESS OF FARM WORK.**

The progress of seasonable farm work, during July was frequently interrupted by rains that made the ground too wet for cultivation, during the first half, but less general and lighter showers during the second half afforded ample opportunity to lay by crops that had attained the proper stage of growth to receive their last cultivation, and, with few exceptions, field crops were laid by free from weeds and grass.

There were two short periods of excessive heat during the month. The first from the 2nd to the 4th, inclusive, and the second from the 17th to the 22nd, inclusive, but as the soil was well supplied with moisture, and the skies generally clouded, the heat was not seriously harmful, and these semi-tropical conditions were conducive to extraordinarily rapid growth of vegetation, especially of cotton and of grasses. The second period had more sunshine, and during it the air was less humid, than the first, and was of longer duration, and dried the surface soil quickly, and it marked the beginning of a period of drought over portions of the State, that continued to the close of the month. These conditions checked the heretofore rapid improvement in the staple crops. Although the adverse weather did not affect the entire State, deterioration set in over a considerable portion of it, so that by the end of the month there was an unusual diversity in in the condition of both corn and cotton, with minor crops less affected. There was, in fact, a marked improvement in tobacco and rice, owing largely to the fact that their culture is localized in sections where the weather conditions were, in the main, favorable.

Late in June, cotton began to grow rapidly and it maintained this rapid growth during the first half of July, when, on sandy lands, growth ceased to a large extent and rust appeared which spread rapidly. Cotton fruited normally during the first half, except on clay soils where the plants grew too much to weed at the expense of fruitage, but during the second half shedding set in on sandy lands, while on clay lands fruitage increased somewhat. By the close of the month there were many full grown bolls, and some open ones, over the southeastern counties. Lice and other insects damaging to cotton, appeared sporadically, but did no serious injury.

Early corn ripened and was not materially affected by the prevailing weather, while late corn improved and became promising. A large crop of watermelons ripened and was marketed. Peach shipments decreased throughout the month, with a particularly fine crop of the Elberta variety, both in size and quality. Tobacco curing made good progress, with late crop better than the early one. June rice came up to good stands, and early rice became a promising crop.

**JULY WEATHER.**

It is both interesting and instructive to institute comparisons between the current season's weather and that of previous years. It is, in fact, only by such methods that an approximate forecast of the yields of growing crops can be made. Such a forecast will not be attempted, but in tabular form will be given a general outline of the weather that prevailed during the past twelve years for the month of July. The first table will give the State mean temperature, the highest, lowest, the average number of days with rain, and the prevailing direction of the winds. The second table will give the State average precipitation, the largest monthly amount and place, and the least monthly amount and place.

**Temperature, Rainy Days and Wind.**

| Year.     | Mean Temp. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|-----------|------------|---------------|--------------|-------------|-------------------|
| 1894..... | 78         | 100           | 55           | 16          | SW.               |
| 1895..... | 80         | 102           | 54           | 8           | SW.               |
| 1896..... | 81         | 105           | 51           | 13          | SW.               |
| 1897..... | 80         | 107           | 51           | 11          | SW.               |
| 1898..... | 80         | 102           | 54           | 14          | SW.               |
| 1899..... | 80         | 105           | 47           | 9           | SW.               |
| 1900..... | 81         | 104           | 55           | 9           | SW.               |
| 1901..... | 81         | 102           | 62           | 10          | SW.               |
| 1902..... | 81         | 107           | 58           | 9           | SW.               |
| 1903..... | 80         | 103           | 45           | 8           | SW.               |
| 1904..... | 79         | 105           | 50           | 12          | SW.               |
| 1905..... | 80         | 101           | 60           | 12          | SW.               |

**Precipitation.**

| Year.    | State Average. | Greatest Monthly. | Place.         | Least Monthly. | Place.            |
|----------|----------------|-------------------|----------------|----------------|-------------------|
| 1894.... | 8.24           | 17.31             | Hardeeville.   | 3.59           | Yorkville.        |
| 1895.... | 4.17           | 8.20              | Georgetown.    | 0.73           | Cheraw.           |
| 1896.... | 8.17           | 15.72             | Greenwood.     | 3.42           | St. Stephens.     |
| 1897.... | 5.01           | 9.81              | St. Stephens.  | 2.00           | Spartanburg.      |
| 1898.... | 7.81           | 12.99             | Charleston.    | 4.72           | Effingham.        |
| 1899.... | 4.03           | 10.16             | Temperance.    | 1.58           | Trenton.          |
| 1900.... | 4.08           | 11.29             | St. Matthews.  | 1.05           | Greenwood.        |
| 1901.... | 4.52           | 13.25             | Georgetown.    | 0.65           | Winnsboro.        |
| 1902.... | 3.79           | 9.62              | Yemassee.      | 0.71           | Winnsboro.        |
| 1903.... | 3.59           | 8.54              | Gillisonville. | 0.95           | Winthrop College. |
| 1904.... | 5.96           | 14.38             | Cheraw.        | 1.44           | Clemson College.  |
| 1905.... | 6.16           | 14.29             | Calhoun Falls. | 3.15           | St. George.       |

**CLIMATOLOGY FOR THE MONTH.**

**Temperature, in Degrees Fahrenheit.**

The mean temperature for July, 1905, was 80.4° which is 0.5° above normal. The highest local mean was 82.9° at Blackville, the lowest was 75.3° at Greenville. The monthly extremes were a maximum of 101° at Bowman and Winnsboro on the 4th and at Dillon on the 21st, and a minimum of 60° at Darlington on the 21st and at Walhalla on the 26th, making the State range 41°. The greatest local monthly range was 40° at Darlington, the least was 24° at Charleston. The mean of the daily maximum temperatures was 90.4°, and of the daily minimum temperatures was 70.3°, making the average daily range 20.1°.

Excessive Heat.—The temperature rose to 100°, or above, at one or more stations on the 2nd, 3rd, 4th, 17th, 19th, 20th, 21st, and 22nd.

**Precipitation, in Inches.**

The precipitation averaged 6.16 inches which is 0.65 above normal. The greatest local amount was 14.29 inches at Calhoun Falls (a part of this fell on June 30th); the least was 3.15 at St. George. The greatest 24-hour fall was 8.00 inches at Walhalla on June 30-July 1st. The average number of days with 0.01, or more, precipitation was 12, ranging from 6 at Liberty to 18 at Summerville.

Hail.—Columbia 21st; Georgetown 25th.



Excessive Precipitation.—Barksdale, 2nd, 4.28 in 24 hrs.; Beaufort, 11th–12th, 3.88 in 24 hrs.; Blackville, 6th, 2.60 in 2 hrs., 55 mins.; Calhoun Falls, June 30th–July 1st, 7.00 in 24 hrs.; Clemson College, June 30th–July 1st, 3.58 in 24 hrs.; Enoree, 2nd, 2.80 in 24 hrs.; Gaffney, 5th, 2.56 in 12 hrs.; Gaffney, 23rd, 2.70 in 24 hrs.; Georgetown, 25th, 0.60 in 5 mins.; Greenville, June 30th–July 1st, 3.20 in 24 hrs.; Saluda, 29th, 2.90 in 24 hrs.; Seivern, 14th, 3.18 in 24 hrs.; Trenton, 19th, 2.82 in 24 hrs.; Walhalla, June 30th–July 1st, 8.00 in 24 hrs.

#### Weather.

The average number of clear days was 13, of partly cloudy ones 10, and of cloudy ones 8.

#### Winds.

The prevailing direction of the wind was from the southwest at 20 stations, from the south at 12, from the southeast at 7, from the west at 5, from the east at 2, and from the north and northwest at one station each.

High Winds.—Beaufort 11th; Charleston 12th; Columbia 4th, 6th, 21st, 24th; Liberty 4th, 22nd, 30th; Newberry 22nd, 29th; Saluda 4th; Walhalla 9th.

#### MISCELLANEOUS PHENOMENA (with dates).

Earthquake.—Summerville 23rd, two slight ones.

Lunar Halos.—Beaufort 10th; Blackville 16th; Charleston 8, 10, 13th; Little Mountain 12th.

Fogs, Dense.—Blackville 15th; Bowman 28th; Charleston. Clarks Hill 27th; Columbia, Santuc, Trial 6th; Heath Springs 7th; Liberty 22nd; Seivern 15–16th; Society Hill 5, 29th; Stateburg 16, 26th.

Thunderstorms.—Barksdale 2, 5, 7, 10, 11, 12, 13th; Beaufort 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30th; Blackville 4, 5, 6, 7, 9, 10, 11, 12, 13, 19, 23, 25th; Bowman 5, 6, 11, 13, 14, 25, 26, 28th; Cheraw 6, 20, 21st; Darlington 4, 7, 11, 12, 13, 14, 19, 29th; Georgetown 6, 25th; Liberty 1, 4, 5, 6, 7, 8, 9, 10, 17, 21, 27, 28th; Little Mountain 11, 24, 29th; Newberry 1, 4, 6, 10, 11, 13, 28, 29, 30th; Saluda 4, 5th; Santuc 1, 4, 5, 6, 7, 10, 11, 12, 13, 21, 28, 29th; Seivern 5, 6, 7, 8, 11, 13, 14, 20, 22, 25, 29, 30th; Society Hill 4, 13, 14, 19, 21, 28th; Stateburg 4, 5, 13, 14, 19, 20, 24, 26, 27, 28, 29, 30th; Summerville 3, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 20, 24, 25, 26, 27, 28, 29, 30, 31st; Trenton 4, 5, 6, 7, 8, 11, 12, 13, 14, 28, 29th; Trial 5, 6, 7th; Walhalla 10, 28th; Winthrop College 6, 7, 10, 11, 12, 13, 14, 22, 28, 29th; Yorkville 6, 10, 12, 22, 29th.

Summarized, there were 184 thunderstorms on 30 dates, distributed throughout the month as follows: 3 on the 1st; 1 each on the 2nd and 3rd; 10 on the 4th; 12 on the 5th; 14 on the 6th; 11 on the 7th; 5 on the 8th; 3 on the 9th; 10 on the 10th; 12 on the 11th; 9 on the 12th; 13 on the 13th; 9 on the 14th; 2 each on the 15th, 16th, and 17th; 4 on the 19th; 5 on the 20th; 5 on the 21st; 3 on the 22nd; 2 on the 23rd; 4 on the 24th; 6 on the 25; 4 each on the 26th and 27th; 11 each on the 28th and 29th; 5 on the 30th; and 1 each on the 31st.

In addition to the above there were thunderstorms noted

at Charleston on the 3, 5, 6, 7, 8, 9, 10, 13, 14, 15, 20, 24, 26, 27, 30th, and at Columbia on the 4, 5, 6, 13, 18, 19, 20, 21, 24, 28, 29th.

#### ERRATA.

In the June Monthly Report the minimum temperature at Allendale on the 10th, should be 10th and 21st; page 7, Barksdale, mean minimum temperature 69.2°, should be 69.3°; pages 5 and 8, Greenwood, total precipitation 3.05, should be 3.07.

#### BAROMETER AND WIND TABLE FOR JULY, 1905.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 30.00      | 30.18    | 14    | 29.79   | 30    | 4.258           | 5.7             | 31                | sw.        | 28    |
| Charleston.....       | 30.02      | 30.19    | 14    | 29.79   | 31    | 7.215           | 9.7             | 34                | s.         | 12    |
| Charlotte, N. C.....  | 30.01      | 30.21    | 14    | 29.78   | 30    | 4.012           | 5.4             | 30                | sw.        | 24    |
| Columbia.....         | 30.00      | 30.20    | 14    | 29.77   | 30    | 4.395           | 5.9             | 36                | sw.        | 4     |
| Savannah, Ga.....     | 30.02      | 30.18    | 14    | 29.81   | 31    | 4.723           | 6.3             | 24                | e.         | 28    |
| Wilmington, N. C..... | 29.99      | 30.20    | 14    | 29.73   | 30    | 5.268           | 7.1             | 26                | sw.        | 22    |
| Averages.....         | 30.01      | 30.21    | 14    | 29.73   | 30    | 4.978           | 6.7             | 36                | sw.        | 4     |

#### REMARKS BY OBSERVERS.

**BARKSDALE.**—Excessive rains caused cotton to turn yellow on sandy lands, during the early part of the month, and later it began to shed its fruitage. **BATESBURG.**—Beneficial rains caused all crops to improve, and the prospects for good yields were favorable at the close of the month. **BEAUFORT.**—The mean temperature was 0.9° below normal; and the precipitation 4.82 inches in excess. Cotton was fine at the close of the month on fertile, well cultivated lands, but shedding began on many fields, and some plants were scalded and had rust. Caterpillars appeared during the month. The weather was unfavorable for saving corn fodder, owing to frequent rains. **BOWMAN.**—The weather during the month was comparatively favorable for crops and for general farm work. Fodder pulling was begun under favorable conditions for saving it. A few bolls of cotton opened. **HEATH SPRINGS.**—The weather having been favorable, all crops improved during July. Fodder ripened on old corn. Young corn became promising. **NEWBERRY.**—A storm to the eastward of the station blew down a barn, on the 29th. **SANTUC.**—There was plenty of precipitation, mostly in the form of gentle rains, but in portions of the county the rainfall was heavy and bottom lands were flooded damaging crops on them. All crops grew rapidly, and most of the fields were clean cultivated. **SOCIETY HILL.**—All crops improved owing to the generous precipitation. **STATEBURG.**—Weather conditions on the whole were favorable to crops during the month, for, while there was an unusual number of cloudy days, the precipitation was generally so light as not to cause any material delay in cultivation of crops except on three periods when slightly more than an inch fell each time. The weather conditions were just such as were needed to favor crops after the rough treatment they had been subjected to in clearing them of grass and weeds during the previous month. **TRENTON.**—Precipitation was 0.44 inch less than the normal for July, and the accumulated amount is 6.42 inches less than the normal for the first seven months of the year.



## CLIMATOLOGICAL DATA FOR THE MONTH OF JULY, 1905.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                              | Sky.               |                    |                            |                     |                               | Observers.             |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|------------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|------------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total slow fall, (unmelted). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. |                        |
| Aiken                                 | Aiken        | 565             | 21                      | 81.0                               | +0.2                       | 98       | *3    | 70      | *2    | 22                       | 6.01   | +0.20                      | 1.50                  | 0                            | 8                  | 22                 | 6                          | 9                   |                               | L. M. Coward.          |
| Allendale                             | Barnwell     | 186             | 17                      | 81.0                               | +1.8                       | 97       | 10    | 64      | 25    | 26                       | 5.82   | +0.98                      | 2.05                  | 0                            | 8                  | 18                 | 3                          | 10                  | w.                            | C. A. Glover.          |
| Anderson                              | Anderson     | 764             | 4                       | 79.0                               | +0.7                       | 98       | 3     | 68      | 7     | 25                       | 3.11   | -2.15                      | 0.98                  | 0                            | 13                 | 12                 | 15                         | 4                   | se.                           | H. H. Russell.         |
| Augusta, Ga.                          | Richmond     | 134             | 34                      | 81.8                               | +0.7                       | 98       | 10    | 64      | *17   | 30                       | 10.25  | -4.28                      | 0                     | 0                            | 13                 | 8                  | 22                         | 1                   | w.                            | Weather Bureau.        |
| Barksdale                             | Laurens      | 780             | 4                       | 77.8                               | +1.0                       | 99       | 3     | 66      | 7     | 20                       | 4.93   | -1.41                      | 2.14                  | 0                            | 8                  | 16                 | 7                          | 8                   | n.                            | J. T. Garrett.         |
| Batesburg                             | Lexington    | 656             | 17                      | 80.9                               | +0.9                       | 96       | 20    | 70      | *2    | 20                       | 10.05  | +4.82                      | 3.88                  | 0                            | 13                 | 15                 | 10                         | 6                   | s.                            | E. J. Hite.            |
| Beaufort                              | Beaufort     | 28              | 19                      | 81.1                               | -0.9                       | 96       | 20    | 70      | *2    | 20                       | 10.05  | +4.82                      | 3.88                  | 0                            | 13                 | 15                 | 10                         | 6                   | s.                            | S. M. Benton.          |
| Bennettsville                         | Marlboro     | 222             | 39                      | 81.2                               | +1.5                       | 100      | 19    | 67      | 9     | 28                       | 4.13   | -1.60                      | 2.60                  | 0                            | 11                 | 14                 | 6                          | 9                   | sw.                           | Jno. L. McCall.        |
| Blackville                            | Barnwell     | 296             | 17                      | 82.9                               | +1.5                       | 100      | 19    | 67      | 9     | 28                       | 4.13   | -1.60                      | 2.60                  | 0                            | 11                 | 14                 | 6                          | 9                   | sw.                           | G. D. C. Lange.        |
| Rowman                                | Orangeburg   | 160             | 4                       | 81.7                               | 0.0                        | 101      | 4     | 67      | *2    | 29                       | 6.41   | -1.03                      | 1.03                  | 0                            | 11                 | 18                 | 11                         | 2                   | sw.                           | B. O. Evans.           |
| Calhoun Falls                         | Abbeville    | 508             | 12                      | 80.8                               | -0.1                       | 100      | 22    | 60      | *21   | 32                       | 5.03   | -0.41                      | 1.28                  | 0                            | 12                 | 17                 | 6                          | 7                   | nw.                           | P. J. Pödder.          |
| Camden                                | Kershaw      | 222             | 39                      | 81.2                               | -0.6                       | 96       | 20    | 72      | 25    | 20                       | 5.70   | -1.89                      | 1.22                  | 0                            | 15                 | 9                  | 15                         | 7                   | se.                           | J. C. Whitaker.        |
| Charleston                            | Charleston   | 48              | 36                      | 81.2                               | -0.6                       | 96       | 20    | 72      | 25    | 20                       | 5.70   | -1.89                      | 1.22                  | 0                            | 15                 | 9                  | 15                         | 7                   | s.                            | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 27                      | 78.4                               | +0.2                       | 95       | 4     | 65      | 27    | 23                       | 5.77   | +0.23                      | 1.28                  | 0                            | 20                 | 6                  | 13                         | 12                  | s.                            | Weather Bureau.        |
| Cheraw (1)                            | Chesterfield | 144             | 17                      | 79.4                               | -1.1                       | 97       | *1    | 67      | *10   | 25                       | 5.83   | 0.72                       | 1.70                  | 0                            | 11                 | 6                  | 12                         | 13                  | s.                            | W. R. Godfrey.         |
| Cheraw (2)                            | Edgefield    | 144             | 12                      | 80.8                               | 0.0                        | 100      | 10    | 65      | *7    | 31                       | 4.38   | -0.08                      | 1.85                  | 0                            | 13                 | 14                 | 7                          | 10                  |                               | Jno. H. Powe.          |
| Clarks Hill                           | Oconee       | 456             | 3                       | 80.8                               | +0.2                       | 94       | 10    | 62      | 26    | 24                       | 7.29   | +2.08                      | 3.58                  | 0                            | 12                 | 22                 | 7                          | 2                   | s.                            | Wm. S. Middleton.      |
| Clemson College                       | Richland     | 850             | 14                      | 79.2                               | +0.2                       | 94       | 10    | 62      | 26    | 24                       | 7.29   | +2.08                      | 3.58                  | 0                            | 12                 | 22                 | 7                          | 2                   | s.                            | Jno. N. Hook.          |
| Columbia                              | Richland     | 351             | 18                      | 80.6                               | 0.0                        | 100      | 3     | 67      | 28    | 28                       | 6.90   | +1.30                      | 2.44                  | 0                            | 14                 | 7                  | 15                         | 9                   | s.                            | Central Office.        |
| Conway                                | Horry        | 25              | 14                      | 80.2                               | 0.0                        | 96       | *3    | 65      | 1     | 26                       | 7.15   | +1.30                      | 1.90                  | 0                            | 13                 | 23                 | 0                          | 8                   | s.                            | McQ. Quattlebaum.      |
| Darlington                            | Darlington   | 175             | 10                      | 78.9                               | -0.2                       | 100      | 22    | 60      | *21   | 32                       | 5.03   | -0.41                      | 1.28                  | 0                            | 12                 | 17                 | 6                          | 7                   | sw.                           | Robt. E. James.        |
| Dillon                                | Marion       | 100             | 1                       | 81.4                               | 0.0                        | 101      | 21    | 63      | 2     | 31                       | 5.03   | -0.41                      | 1.28                  | 0                            | 12                 | 17                 | 6                          | 7                   | sw.                           | A. E. Rowell.          |
| Durham                                | Abbeville    | 740             | 4                       | 79.7                               | -0.2                       | 95       | 19    | 63      | 8     | 23                       | 6.16   | -0.08                      | 1.55                  | 0                            | 10                 | 16                 | 6                          | 9                   | w.                            | Rev. O. Y. Bonner.     |
| Edisto                                | Bamberg      | 127             | 12                      | 81.2                               | -0.1                       | 100      | 22    | 60      | *21   | 32                       | 5.03   | -0.41                      | 1.28                  | 0                            | 12                 | 17                 | 6                          | 7                   | sw.                           | Mrs. M. Thompson.      |
| Edlington                             | Florence     | 106             | 13                      | 81.2                               | -0.1                       | 100      | 22    | 60      | *21   | 32                       | 5.03   | -0.41                      | 1.28                  | 0                            | 12                 | 17                 | 6                          | 7                   | sw.                           | H. B. McCall.          |
| Enoree                                | Spartanburg  | 987             | 0                       | 81.2                               | -0.1                       | 100      | 22    | 60      | *21   | 32                       | 5.03   | -0.41                      | 1.28                  | 0                            | 12                 | 17                 | 6                          | 7                   | sw.                           | E. P. Porter.          |
| Florence                              | Florence     | 136             | 17                      | 81.2                               | -0.1                       | 100      | 22    | 60      | *21   | 32                       | 5.03   | -0.41                      | 1.28                  | 0                            | 12                 | 17                 | 6                          | 7                   | sw.                           | H. K. Gilbert.         |
| Gaffney                               | Cherokee     | 893             | 9                       | 80.8                               | 0.0                        | 100      | 20    | 64      | *16   | 32                       | 7.74   | +3.28                      | 2.70                  | 0                            | 11                 | 19                 | 4                          | 14                  | se.                           | B. F. Camp.            |
| Georgetown                            | Georgetown   | 12              | 12                      | 80.3                               | -0.2                       | 93       | *4    | 68      | 31    | 22                       | 8.56   | +1.64                      | 1.98                  | 0                            | 11                 | 19                 | 4                          | 14                  | se.                           | Reid Whitford.         |
| Greenville                            | Greenville   | 989             | 13                      | 75.3                               | -1.1                       | 91       | 10    | 61      | *26   | 23                       | 8.91   | +3.22                      | 3.20                  | 0                            | 12                 | 15                 | 1                          | 15                  | sw.                           | Mrs. S. A. Crittenden. |
| Greenwood                             | Greenwood    | 671             | 17                      | 79.8                               | -0.2                       | 95       | 24    | 67      | 7     | 21                       | 5.61   | +0.69                      | 1.12                  | 0                            | 11                 | 17                 | 6                          | 14                  | w.                            | M. M. Calhoun.         |
| Heath Springs                         | Lancaster    | 4               | 4                       | 80.8                               | 0.0                        | 100      | *4    | 64      | 9     | 32                       | 6.66   | -0.93                      | 1.59                  | 0                            | 11                 | 22                 | 7                          | 3                   | sw.                           | J. A. Weaver.          |
| Kingstree (1)                         | Williamsburg | 54              | 17                      | 82.7                               | +2.1                       | 99       | 4     | 71      | 1     | 23                       | 6.02   | +0.28                      | 1.44                  | 0                            | 12                 | 17                 | 6                          | 8                   | e.                            | J. A. Scott.           |
| Kingstree (2)                         | Williamsburg | 54              | 11                      | 82.7                               | +2.1                       | 99       | 4     | 71      | 1     | 23                       | 6.02   | +0.28                      | 1.44                  | 0                            | 12                 | 17                 | 6                          | 8                   | e.                            | A. O. Matthews.        |
| Liberty                               | Pickens      | 900             | 11                      | 79.4                               | +0.4                       | 96       | *4    | 63      | 11    | 28                       | 4.18   | -1.51                      | 1.66                  | 0                            | 6                  | 17                 | 13                         | 1                   | sw.                           | Jno. T. Boggs.         |
| Little Mountain                       | Newberry     | 711             | 12                      | 81.2                               | +0.7                       | 100      | 3     | 63      | 16    | 30                       | 4.09   | -1.32                      | 1.66                  | 0                            | 13                 | 9                  | 20                         | 2                   | sw.                           | W. J. Burdell, M. D.   |
| Lugoff                                | Kershaw      | 168             | 4                       | 81.2                               | +0.7                       | 100      | 3     | 63      | 16    | 30                       | 4.09   | -1.32                      | 1.66                  | 0                            | 13                 | 9                  | 20                         | 2                   | sw.                           | W. J. Burdell, M. D.   |
| Newberry                              | Newberry     | 502             | 1                       | 82.2                               | +3.1                       | 100      | *19   | 67      | *7    | 28                       | 4.69   | -1.34                      | 1.70                  | 0                            | 13                 | 2                  | 19                         | 10                  | sw.                           | John M. Sease, M. D.   |
| Pelzer                                | Anderson     | 873             | 0                       | 82.2                               | +3.1                       | 100      | *19   | 67      | *7    | 28                       | 4.69   | -1.34                      | 1.70                  | 0                            | 13                 | 2                  | 19                         | 10                  | sw.                           | W. G. Peterson.        |
| Pinopolis                             | Berkeley     | 54              | 12                      | 77.8                               | -0.9                       | 93       | *4    | 68      | *1    | 26                       | 5.69   | -0.06                      | 1.17                  | 0                            | 12                 | 13                 | 10                         | 8                   | e.                            | John M. Ward.          |
| St. Georges                           | Dorchester   | 109             | 17                      | 81.0                               | +0.6                       | 98       | 5     | 67      | 1     | 26                       | 3.15   | -2.89                      | 0.99                  | 0                            | 11                 | 27                 | 0                          | 4                   |                               | E. P. Ravenel.         |
| St. Matthew                           | Orangeburg   | 269             | 17                      | 79.9                               | -0.5                       | 95       | *3    | 67      | 1     | 25                       | 2.90   | -3.68                      | 0.82                  | 0                            | 8                  | 21                 | 0                          | 10                  |                               | V. B. Raynor.          |
| St. Stephen                           | Berkeley     | 73              | 13                      | 81.2                               | +0.7                       | 100      | 3     | 63      | 16    | 30                       | 4.09   | -1.32                      | 1.66                  | 0                            | 13                 | 9                  | 20                         | 2                   | sw.                           | C. T. Shuler.          |
| Saluda                                | Saluda       | 536             | 4                       | 81.2                               | +0.7                       | 100      | 3     | 63      | 16    | 30                       | 4.09   | -1.32                      | 1.66                  | 0                            | 13                 | 9                  | 20                         | 2                   | sw.                           | Alvin Etheridge.       |
| Santee                                | Union        | 512             | 12                      | 79.7                               | +0.9                       | 98       | 20    | 64      | 9     | 20                       | 5.21   | +0.12                      | 1.00                  | 0                            | 9                  | 19                 | 6                          | 6                   | sw.                           | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham      | 71              | 36                      | 81.2                               | -0.7                       | 96       | 20    | 70      | 9     | 22                       | 7.68   | +1.87                      | 1.78                  | 0                            | 12                 | 9                  | 18                         | 4                   | w.                            | Weather Bureau.        |
| Seizern                               | Aiken        | 482             | 4                       | 80.2                               | +0.3                       | 99       | 3     | 63      | *10   | 32                       | 6.16   | -0.93                      | 1.59                  | 0                            | 10                 | 16                 | 7                          | 6                   | sw.                           | Geo. C. Gunter.        |
| Smiths Mills                          | Williamsburg | 62              | 10                      | 81.2                               | +0.7                       | 100      | 3     | 63      | 16    | 30                       | 4.09   | -1.32                      | 1.66                  | 0                            | 13                 | 9                  | 20                         | 2                   | sw.                           | H. van Keuren.         |
| Society Hill                          | Darlington   | 192             | 14                      | 81.1                               | +2.2                       | 98       | 4     | 68      | 26    | 25                       | 7.58   | +0.88                      | 2.37                  | 0                            | 12                 | 14                 | 7                          | 10                  | sw.                           | J. J. Lucas.           |
| Spartanburg                           | Spartanburg  | 875             | 11                      | 79.1                               | -0.1                       | 95       | *18   | 62      | 26    | 25                       | 6.76   | +2.53                      | 1.90                  | 0                            | 12                 | 13                 | 1                          | 17                  |                               | F. P. Robinson.        |
| Stateburg                             | Sumter       | 500             | 28                      | 80.8                               | +2.0                       | 98       | 4     | 68      | 1     | 24                       | 5.78   | +0.62                      | 1.44                  | 0                            | 15                 | 3                  | 14                         | 14                  | sw.                           | W. W. Anderson, M. D.  |
| Summerville                           | Dorchester   | 75              | 8                       | 79.5                               | +0.03                      | 96       | 20    | 67      | *1    | 23                       | 6.84   | +1.14                      | 2.12                  | 0                            | 18                 | 9                  | 15                         | 7                   | sw.                           | Miss E. H. Gadsden.    |
| Sumter                                | Sumter       | 169             | 4                       | 80.8                               | +2.0                       | 98       | 4     | 68      | 1     | 24                       | 5.78   | +0.62                      | 1.44                  | 0                            | 15                 | 3                  | 14                         | 14                  | sw.                           | H. A. Moses.           |
| + Trenton                             | Edgefield    | 620             | 12                      | 81.1                               | +0.3                       | 99       | *3    | 65      | 11    | 30                       | 5.79   | -0.44                      | 2.82                  | 0                            | 8                  | 5                  | 26                         | 0                   | s.                            | C. A. Long.            |
| Trial                                 | Berkeley     | 85              | 19                      | 80.7                               | +2.0                       | 99       | 20    | 67      | *2    | 26                       | 3.54   | -3.04                      | 1.52                  | 0                            | 16                 | 9                  | 14                         | 8                   | sw.                           | Etsell Gaillard.       |
| Walhalla                              | Oconee       | 1061            | 14                      | 77.1                               | -0.6                       | 94       | *19   | 60      | 26    | 27                       | 13.60  | +3.30                      | 8.00                  | 0                            | 12                 | 11                 | 18                         | 2                   | sw.                           | L. E. Isbell.          |
| Walterboro                            | Colleton     | 2               | 2                       | 81.5                               | 0.0                        | 100      | 20    | 66      | 9     | 28                       | 5.75   | -0.18                      | 1.53                  | 0                            | 13                 | 14                 | 11                         | 6                   | sw.                           | J. A. Westerberg.      |
| Wilmington, N. C.                     | New Hanover  | 52              | 36                      | 79.4                               | -0.3                       | 95       | 20    | 68      | 28    | 23                       | 7.42   | +0.18                      | 1.77                  | 0                            | 19                 | 5                  | 21                         | 5                   | sw.                           | Weather Bureau.        |
| Winnboro                              | Fairfield    | 545             | 16                      | 80.4                               | +1.5                       | 101      | 4     | 68      | *7    | 28                       | 5.04   | -0.04                      | 0.92                  | 0                            | 9                  | 8                  | 22                         | 1                   | sw.                           | John W. Seigler.       |
| Winthrop College                      | York         | 690             | 6                       | 79.8                               | +0.8                       | 98       | 4     | 66      | *9    | 26                       | 5.61   | +0.39                      | 1.28                  | 0                            | 14                 | 14                 | 13                         | 4                   | sw.                           | Geo. B. Green.         |
| Yemassee                              | Beaufort     | 23              | 10                      | 80.8                               | -2.0                       | 99       | 20    | 66      | 9     | 28                       | 6.09   | +0.28                      | 2.05                  | 0                            | 15                 | 19                 | 0                          | 12                  |                               | J. G. Hutson.          |
| Yorkville                             | York         | 680             | 17                      | 81.4                               | +2.2                       | 100      | 4     | 67      | 7     | 26                       | 9.15   | +3.72                      | 1.84                  | 0                            | 15                 | 1                  | 17                         | 13                  | sw.                           | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 80.4                               | +0.5                       | 101      | *4    | 60      | *21   | 32                       | 6.16   | +0.65                      | 8.00                  | 0                            | 12                 | 13                 | 10                         | 8                   | sw.                           |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard.

\* On other dates also.

a indicates 1 day missing, b, 2 days, etc.



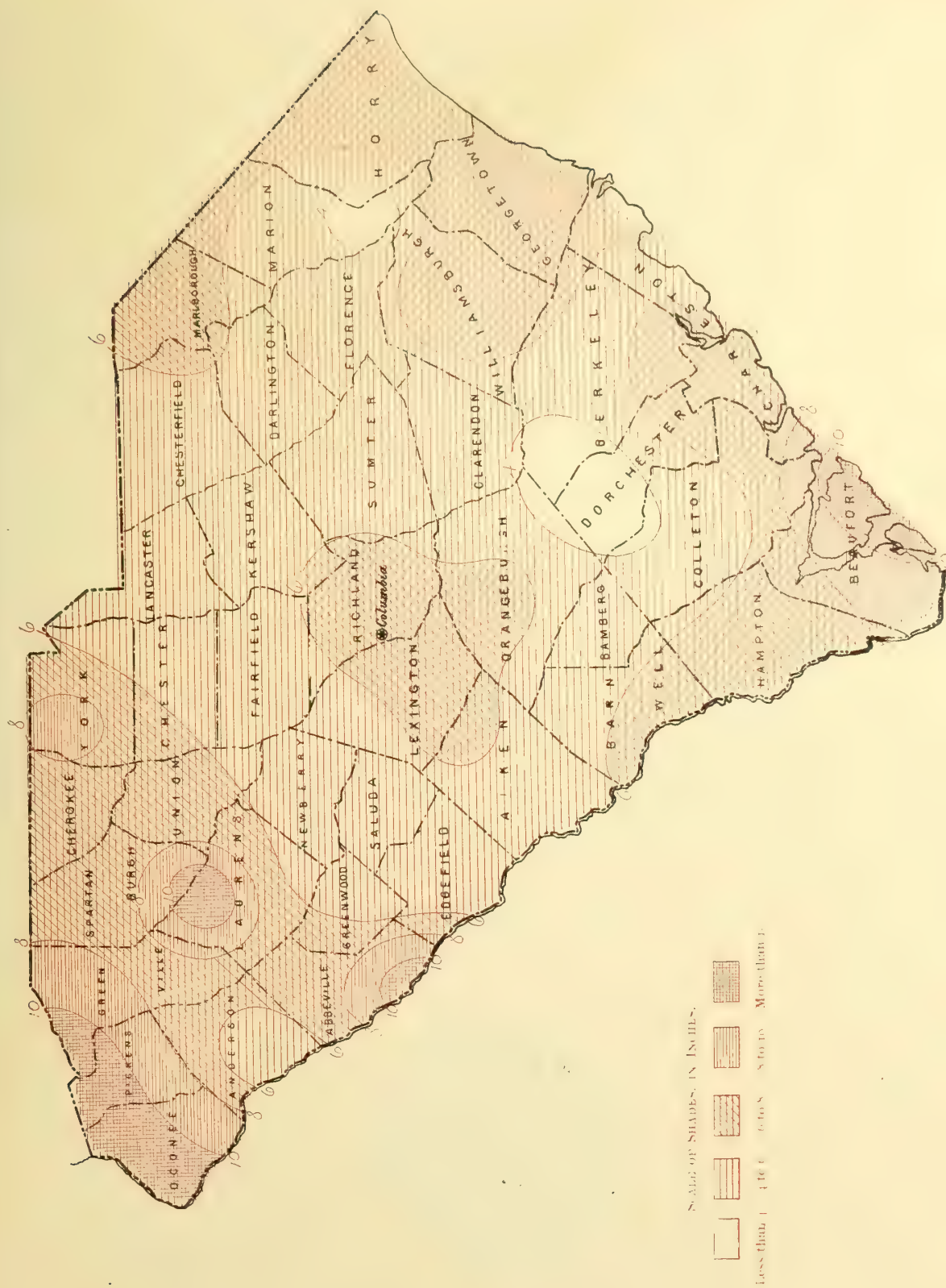
## STATIONS.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. 1, 2, 3, etc., mean respectively 100, 101, 102, 103, etc.



# TOTAL PRECIPITATION FOR JULY, 1905.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JULY, 1905.

| STATIONS.         | Day of Month. |      |     |      |      |      |     |      |      |      |      |      |      |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | Total. |
|-------------------|---------------|------|-----|------|------|------|-----|------|------|------|------|------|------|------|------|-----|------|----|------|-----|------|------|-----|----|-----|------|------|-----|------|-----|------|--------|
|                   | 1             | 2    | 3   | 4    | 5    | 6    | 7   | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16  | 17   | 18 | 19   | 20  | 21   | 22   | 23  | 24 | 25  | 26   | 27   | 28  | 29   | 30  | 31   |        |
| Aiken             |               |      |     |      | .30  | .63  | .90 |      |      |      |      | .10  |      |      |      |     | 1.10 |    |      |     |      |      |     |    | .38 | 1.10 |      |     |      |     | 1.50 | 6.0    |
| Allendale         |               |      |     |      | .37  | .79  | .04 |      |      |      |      | .93  | .48  | 2.05 |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.8    |
| Anderson          | .35           | .02  | T.  | .81  | .37  | .02  | .20 |      | T.   |      | .04  | .13  | .11  | .13  | .44  |     |      |    |      | .04 |      |      |     |    | .16 | .08  |      | T.  | .98  |     | T.   | 3.1    |
| Augusta, Ga.      | .93           | 4.28 |     | .93  | 1.08 | .38  | .35 |      | T.   | .50  | .52  | .40  | .40  |      |      | .10 |      |    |      |     | .14  |      |     |    | T.  |      |      |     | .24  |     |      | 10.6   |
| Barksdale         |               |      |     |      | .29  |      | .19 |      | .06  |      | T.   | .97  | .12  | 1.15 | T.   |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.9    |
| Batesburg         |               |      |     |      | .43  | .53  | .27 | T.   |      |      | 3.37 | 1.74 | .55  | .17  | T.   |     | .49  |    |      |     |      |      |     |    | .02 | 1.11 | .04  |     | 1.34 | .59 |      | 10.6   |
| Beaufort          |               |      |     |      | .20  | 2.60 | .07 | .03  |      | .03  | .10  | .33  | .18  |      |      |     |      |    |      |     |      |      |     |    | .05 | .07  |      |     |      |     |      | 4.1    |
| Bennettsville     |               |      |     |      | 1.13 | 1.05 |     |      |      |      | .70  | .84  | .07  | .34  | .03  | T.  |      |    |      |     |      |      |     |    | .04 | .45  | 1.08 | T.  | .68  |     | .07  | 6.4    |
| Blackville        |               |      |     |      | .15  |      | .92 | .64  | .36  |      | .36  | .72  | .44  | .91  |      |     |      |    | 2.35 |     |      |      |     |    |     |      |      |     |      |     |      | 14.2   |
| Bowman            | 7.00          |      | .16 |      | 1.46 | .20  | .12 |      |      |      | 1.20 | .75  | .65  | .56  |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.1    |
| Calhoun Falls     |               |      |     |      | .15  | T.   | .04 | .03  | .16  | .24  | .95  | .63  | .38  | .31  | .32  | T.  |      |    |      |     |      |      |     |    | .86 | .36  | .81  | .08 |      |     | .38  | 5.7    |
| Camden            |               |      |     |      | .42  | .90  | .03 |      |      | .08  | .37  | 1.28 | .02  | .13  | .19  |     |      |    |      | .36 | .22  | .26  |     |    |     |      |      |     |      |     |      | 5.7    |
| Charleston        |               |      |     |      | .35  | .01  | .65 |      | T.   |      | 1.00 | .37  | 1.79 | .60  |      |     |      |    |      | .10 | T.   | .06  |     |    |     |      |      |     |      |     |      | 5.8    |
| Charlotte, N. C.  | .21           | .01  |     | .28  | .33  | T.   | .72 |      | .01  | T.   | .04  | 1.18 | .43  | 1.85 | .61  |     |      |    |      | .08 |      | .08  |     |    |     |      |      |     |      |     |      | 6.3    |
| Cheraw(1)         |               |      |     |      | .01  | .15  | .21 |      |      |      | 1.36 | .90  | .07  | .13  |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.3    |
| Cheraw(2)         | T.            |      |     |      | .04  | .24  | .25 |      |      |      | T.   | .18  | .05  | T.   |      |     |      |    | .90  | .07 | .02  | .36  |     |    |     |      |      |     |      |     |      | 7.2    |
| Clark's Hill      |               |      |     | 1.01 | .15  | .38  | .25 |      |      | .15  | .21  |      |      |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 6.9    |
| Clemson College   | 3.58          | .16  |     | .04  | .24  | .25  |     |      |      |      | 1.36 | .90  | .07  | .13  |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 7.1    |
| Columbia          | T.            |      | .06 | 1.01 | .17  | .01  | T.  |      |      |      | T.   | .18  | .05  | T.   |      |     |      |    |      | .90 | .07  | .02  | .36 |    |     |      |      |     |      |     |      | 6.9    |
| Conway            |               |      |     |      | .15  | .17  | .01 | T.   |      |      | T.   | .18  | .05  | T.   |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 7.1    |
| Darlington        |               |      |     |      | .48  | .14  |     | .62  | T.   |      | .45  | .42  | .38  | .22  | .45  | .60 |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.0    |
| Dillon            | T.            |      |     |      | .01  | .05  |     | T.   | .05  | .01  | .11  | .09  | .29  | 1.07 | 1.92 |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.1    |
| Due West          | 1.19          |      |     |      | .53  | .30  | .86 | T.   |      | .06  | 1.55 | .12  | .35  |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 6.1    |
| Edisto            |               |      |     |      | .53  | .30  | .86 | T.   |      | .06  | 1.55 | .12  | .35  |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.9    |
| Edinham           |               |      |     |      | .53  | .30  | .86 | T.   |      | .06  | 1.55 | .12  | .35  |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 0.9    |
| Enoree            | .65           | 2.80 |     |      | .38  |      |     | T.   |      |      |      | .60  | .70  | .52  |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 6.2    |
| Florence          |               |      |     |      | 1.20 | .15  | .08 |      |      |      | .05  | .15  | .55  | .15  | .30  | .06 |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.1    |
| Gaffney           | .45           | .38  |     |      | 2.56 |      |     |      |      | .05  | .15  | .55  | .15  | .30  | .06  |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 7.7    |
| Georgetown        |               |      |     |      | .35  | T.   |     |      |      | .40  | 1.60 | 1.32 | .22  | .45  | T.   |     |      |    |      | T.  | T.   | 1.98 |     |    | .30 | 1.22 | .30  | T.  | .33  | .21 |      | 8.5    |
| Greenville        | 3.20          | .51  |     |      | .70  | 1.10 |     | .02  |      |      | .69  | 1.30 | .50  | .40  |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 8.9    |
| Greenwood         | .50           |      |     |      | .26  | .60  | .50 |      |      |      | 1.12 | .35  | .32  | .80  | .11  | T.  |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.6    |
| Heath Springs     |               | .22  |     | 1.25 | .51  | T.   |     |      | 1.54 |      | .31  | 1.01 | .34  | 1.05 | T.   |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.5    |
| Kingstree(1)      |               |      |     |      | .18  | .14  |     |      |      |      | .74  | .53  | .20  | 1.00 | .05  |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 6.6    |
| Kingstree(2)      | .05           |      |     |      | .28  | .15  |     | 1.41 | T.   | 1.60 | .15  |      |      |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.0    |
| Liberty           | 1.30          |      |     | .20  | T.   | .88  |     |      |      |      | 1.60 | .15  |      |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.0    |
| Little Mountain   | .12           |      |     | .17  | .18  | .08  |     | .01  |      |      | 1.15 |      | .05  | .12  |      | .07 |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.1    |
| Lugoff            |               |      |     |      | .17  | .18  | .08 |      | .01  |      | 1.15 |      | .05  | .12  |      | .07 |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.0    |
| Newberry          | 1.15          |      |     | .19  |      | .12  | .02 |      | .10  | .42  | .02  | .67  |      |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 4.6    |
| Pelzer            | 1.14          | .18  |     |      | .98  | .35  | T.  |      |      | .20  | 1.46 | .80  | .23  |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.5    |
| Pinopolis         |               |      |     |      | .59  | .25  | .01 | .02  |      | .03  | .52  | .72  | .87  |      | 1.17 |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.6    |
| St. Georges       |               |      |     |      | .45  | .35  |     |      |      | .15  | .90  | .15  | .10  |      |      | .40 |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 3.1    |
| St. Matthew       |               |      |     |      | .55  | .05  |     |      |      | .20  | .28  | .25  |      |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 7.8    |
| St. Stephen       |               |      |     |      | .55  | .05  |     |      |      | .20  | .28  | .25  |      |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.6    |
| Saluda            | .51           |      | .95 | .08  | T.   |      |     |      |      | 1.26 | .50  | .80  | 1.75 | .41  | .32  |     |      |    |      | .40 |      |      |     |    |     |      |      |     |      |     |      | 7.7    |
| Santuc            | .43           | .34  |     | .42  | T.   | .10  | T.  |      | .46  | .42  | 1.00 | .44  |      |      | .06  |     |      |    |      |     | .05  |      |     |    |     |      |      |     |      |     |      | 5.2    |
| Savannah, Ga.     |               |      |     |      | .88  | .44  | .15 | .19  | T.   | .14  | .09  | .44  | .58  | .09  | .09  |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 7.7    |
| Severn            |               |      |     |      | .92  | T.   | .04 | .02  |      |      | T.   | .80  | T.   | 3.18 | .37  |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 3.8    |
| Smiths Mills      |               |      |     |      | .60  | T.   |     |      |      | .20  |      | .18  | .30  | .28  |      |     |      |    |      | .20 |      |      |     |    |     |      |      |     |      |     |      | 6.1    |
| Society Hill      | .03           |      |     | .12  | .09  |      |     | .47  | .23  | .50  | .62  | 1.40 | 2.37 |      |      |     |      |    |      | .72 |      |      |     |    |     |      |      |     |      |     |      | 7.5    |
| Spartanburg       | .80           | 1.90 |     | .13  | .30  | T.   | .02 |      |      | T.   | .15  | 1.00 | .80  | .56  | T.   | T.  |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 6.7    |
| Stateburg         |               |      | .14 | .24  | .04  | .26  |     |      |      | .22  | .58  | 1.04 | 1.24 |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.7    |
| Summerville       |               |      |     | 2.12 | .08  | .01  | T.  | .12  | T.   | 1.81 | .88  | .50  | .42  | .03  | .11  |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 6.8    |
| Sumter            |               |      |     |      | .13  | .11  | .10 | T.   |      |      | .86  |      | T.   |      |      |     |      |    |      | .15 | 2.82 |      |     |    |     |      |      |     |      |     |      | 5.7    |
| Trenton           |               |      | .03 |      | .04  | .40  | .01 | .03  |      | T.   | 1.52 | .26  | .50  | .22  | .04  | .01 | T.   |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 3.5    |
| Trial             | 8.00          |      | .05 |      | .38  | T.   |     |      | .12  | .40  | 2.75 | .45  | .55  | .35  | .10  | .35 |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 13.6   |
| Walhalla          |               |      |     | .40  | .11  | .13  | .21 |      |      | 1.53 | 1.15 | .73  | .23  | .04  |      | .07 |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.7    |
| Walterboro        |               |      |     | .40  | .11  | .13  | .21 |      |      | 1.53 | 1.15 | .73  | .23  | .04  |      | .07 |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 7.4    |
| Wilmington, N. C. | T.            |      | .18 | .03  | .25  | .93  | .52 | .28  | .02  | .67  | .05  | .08  | .22  | .40  |      |     |      |    |      | .21 | .18  | 1.59 |     |    | .02 | .50  | .63  |     | T.   | .85 | .08  | 5.0    |
| Winnsboro         | .33           |      |     | .87  | .20  | .80  | .15 | T.   |      | T.   |      |      |      |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 5.0    |
| Winthrop College  | .82           | .06  |     | T.   | .76  | .21  |     |      | .16  | .62  | .32  | .04  | .11  |      |      |     |      |    |      | .38 |      |      |     |    |     |      |      |     |      |     |      | 5.6    |
| Yemassee          | .08           |      |     |      | .37  | .08  | .28 | .97  |      | .27  | .41  | .18  | .12  | .09  |      | .07 | .08  |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 6.0    |
| Yorkville         | .23           | .26  |     | .20  | .11  | 1.54 |     |      | 1.84 | .70  | .90  | .20  | .03  |      |      |     |      |    |      |     |      |      |     |    |     |      |      |     |      |     |      | 9.1    |

T. indicates trace, less than .01 inch.



51. 23  
N-50

U. S. DEPARTMENT OF AGRICULTURE.

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REPORT FOR AUGUST, 1905.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

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PREPARED UNDER DIRECTION OF

WILLIS L. MOORE,

CHIEF OF WEATHER BUREAU.

BY

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SECTION DIRECTOR.

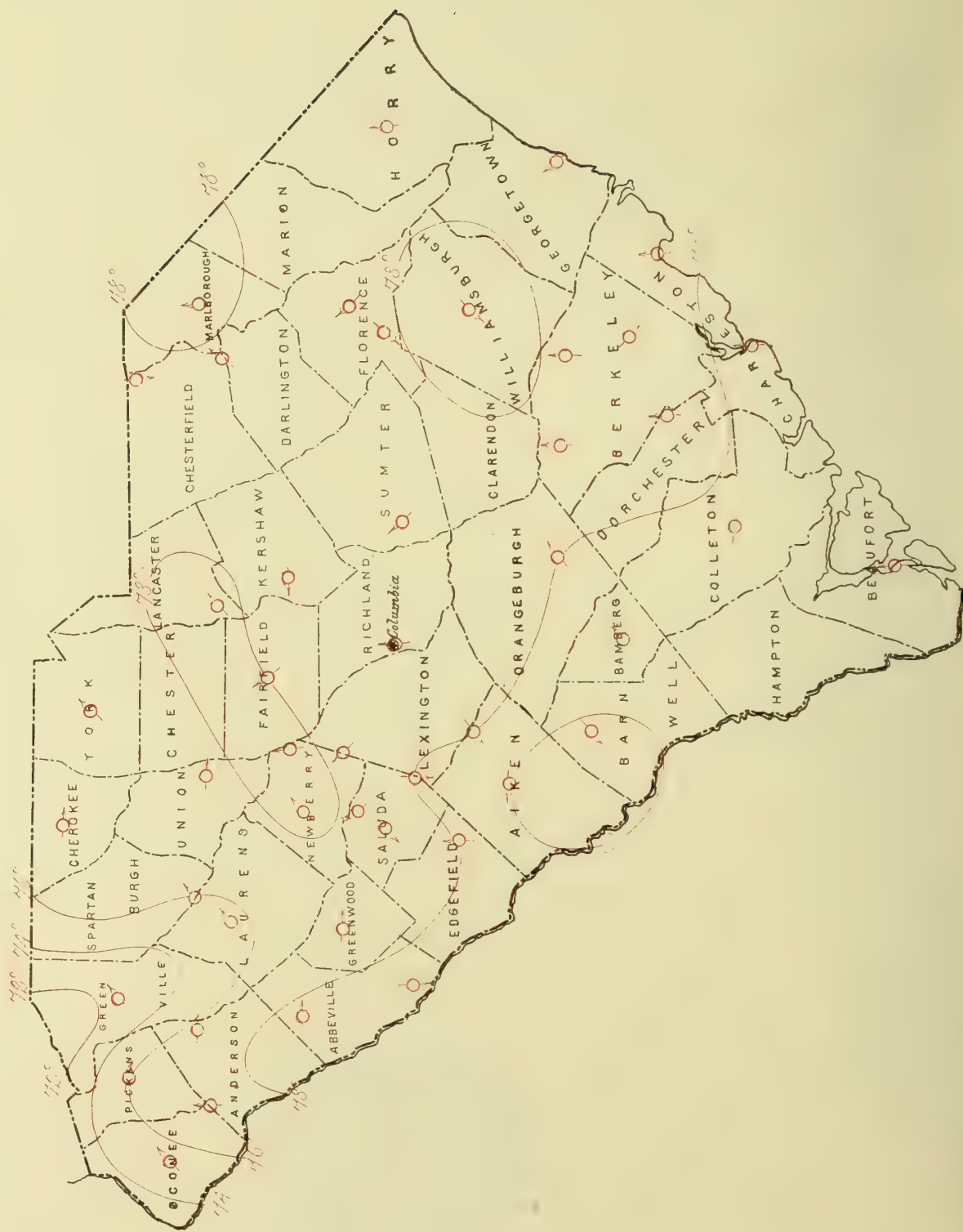


RALEIGH, N. C.  
WEATHER BUREAU OFFICE.

SEPTEMBER 28, 1905.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR AUGUST, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director,  
COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., AUGUST, 1905.

No. 8.

## PROGRESS OF FARM WORK.

Temperatures were slightly below normal at the beginning of the month, although the departures were scarcely noteworthy, with increasing warmth after the 3rd. Maximum temperatures of 100°, or above, were noted at one or more stations on the 6th, 7th and 8th only. The remainder of the month had about seasonable temperatures, with the exception of a cool period from the 26th to the 29th, inclusive, when, in places, the minimum temperatures were within one degree of the lowest recorded in any August during the last eighteen years.

Neither the few hot days nor the cool period had an injurious effect on crop development, except that the latter period, while it lasted, was somewhat damaging to young cotton, although other growing crops were seemingly benefited.

Droughty conditions prevailed during the first week, after which a period of general and at times copious rains set in on the 7th and continued to the 18th, during which time daily showers occurred over practically the entire State, with numerous thunderstorms. There was a shorter period of rainy weather from the 22nd to the 26th, inclusive. There was no rain at any station on the 1st, 2nd, 3rd, 20th, 30th and 31st; at one station each on the 21st and 29th; at 2 stations on the 28th and at 3 only on the 19th.

While the State average precipitation was nearly normal, it was excessive in localities, causing floods that destroyed lowland crops and damaged lands. No crop suffered material injury from lack of moisture. The rains interfered greatly with gathering fodder from early corn, and considerable was damaged, and the humid atmosphere was not favorable for curing late tobacco.

The usual deterioration of cotton on sandy lands set in early in the month and continued to its close, and in many fields rust caused excessive shedding of squares and young bolls, and, in places, mature bolls rotted but the damage from the latter cause was immaterial and soon ceased. On clay lands, and on well cultivated and well fertilized lands generally, cotton continued to grow, bloom and fruit normally throughout the month. Cotton began to open freely over the southern counties during the first week and opening gradually extended westward reaching the northwestern counties during the last week. Picking began during the first week, and became active over the entire State after the 20th. Sea-island cotton improved generally, although damaged to some extent by caterpillars.

Early corn reached maturity, and was not affected by the prevailing weather; later plantings improved steadily. Tobacco cutting and curing were nearly finished, with the late

crop better than the early one. Some rice was harvested. Minor crops, as a rule, were favored by the prevailing weather, especially peas, sweet potatoes and other fall root crops. Pastures were fine, and gardens fairly good, with about a normal supply of seasonable vegetables.

## AUGUST WEATHER.

In comparison with the twelve year record of August weather, the current month had about the same average cloudiness, except that there were somewhat more wholly clear days and fewer partly cloudy ones. With one exception (1904) the mean temperature was the lowest of record, but the only especially noteworthy feature, in comparison, was the very low minimum temperature on the 26th, which was noted at Aiken, and which was the lowest August temperature of record in South Carolina. There were eight years of the twelve, that had more precipitation, but the rainfall was very evenly distributed during the current month.

The tabular arrangement of data is the same as in the July Monthly Report, and represents the State averages for the different years, and the absolute extremes.

## Temperature, Rainy Days and Wind.

| Year. | Mean Temp. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|-------|------------|---------------|--------------|-------------|-------------------|
| 1894  | 77.9       | 102           | 55           | 11          | SW.               |
| 1895  | 79.4       | 101           | 55           | 13          | SW.               |
| 1896  | 80.4       | 105           | 52           | 7           | SW.               |
| 1897  | 78.0       | 102           | 57           | 9           | SW.               |
| 1898  | 78.7       | 99            | 57           | 18          | SW.               |
| 1899  | 81.2       | 103           | 59           | 10          | SW.               |
| 1900  | 83.0       | 106           | 60           | 5           | SW.               |
| 1901  | 78.6       | 97            | 57           | 15          | S.                |
| 1902  | 78.6       | 104           | 55           | 12          | SW.               |
| 1903  | 80.6       | 105           | 60           | 12          | SW.               |
| 1904  | 77.6       | 102           | 54           | 14          | SW.               |
| 1905  | 77.9       | 107           | 46           | 11          | S.-SW.            |

## Precipitation.

| Year. | State Average. | Greatest Monthly. | Place.        | Least Monthly. | Place.           |
|-------|----------------|-------------------|---------------|----------------|------------------|
| 1894  | 7.28           | 12.26             | Society Hill. | 0.88           | Simpsonville.    |
| 1895  | 7.95           | 12.00             | Holland.      | 3.82           | Yemassee.        |
| 1896  | 4.14           | 10.21             | Kingstree.    | 1.02           | Clemson College. |
| 1897  | 5.16           | 9.93              | Trenton.      | 1.27           | Windsboro.       |
| 1898  | 9.81           | 24.68             | Port Royal.   | 4.28           | Gaffney.         |
| 1899  | 6.26           | 17.94             | Pinopolis.    | 1.33           | Cheraw.          |
| 1900  | 2.13           | 5.55              | Yemassee.     | 0.27           | Cheraw.          |
| 1901  | 9.01           | 19.32             | Liberty.      | 3.23           | Beaufort.        |
| 1902  | 5.07           | 8.68              | Batesburg.    | 1.20           | Spartanburg.     |
| 1903  | 7.15           | 12.83             | St. Stephens. | 3.05           | Clarks Hill.     |
| 1904  | 8.47           | 13.13             | Effingham.    | 3.92           | Aiken.           |
| 1905  | 5.69           | 10.87             | Santuc.       | 2.30           | Beaufort.        |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for August, 1905, was 77.9° which is 1.5° below normal. The highest local mean was 82.9° at Aiken, the lowest was 72.3° at Greenville. The monthly extremes were a maximum of 107° at Aiken on the 7th, and a minimum of 46° at Aiken on the 26th, making the State range and the greatest local monthly range 61°; the least local monthly range was 27° at Charleston. The mean of the daily maximum temperatures was 87.8°, and of the daily minimum temperatures was 68.0°, making the average daily range 19.8°.

Excessive Heat.—The temperature rose to 100°, or above, at one or more stations on the 6th, 7th, and 8th.

## Precipitation, in Inches.

The precipitation averaged 5.69 inches which is 0.54 below normal. The greatest local monthly amount was 10.87 at



Santuc, the least was 2.30 at Beaufort. The greatest 24-hour fall was 4.06 at Columbia on the 8th-9th. The average number of days with 0.01, or more, precipitation was 11, ranging from 5 at Effingham to 16 at Cheraw and Santuc.

Hail.—At Society Hill on the 7th.

Excessive Precipitation.—Batesburg, 13th, 2.04 in 2 hours; Beaufort, 25th, 0.87 in 40 minutes; Blackville, 14th, 1.36 in 1 hr. 15 mins.; Columbia, 8th-9th, 4.06 in 11 hrs. 41 mins.; 14th, 1.19 in 45 mins.; Dillon, 23rd, 2.99 in 24 hrs.; Enoree, 4th, 1.80 in 1 hr. 30 mins.; Gaffney, 9th-10th, 3.76 in 24 hrs.; Greenville, 10th-11th, 2.74 in 24 hrs.; Santuc, 7th, 3.41 in about 12 hrs.; Seivern, 25th, 2.52 in 24 hrs.; Society Hill, 8th, 2.86 in 24 hrs.; Winnsboro, 8th, 2.75 in 24 hrs.

#### Weather.

The average number of clear days was 15, of partly cloudy ones 8, and of cloudy ones 8.

#### Wind.

The prevailing direction of the wind was from the south and southwest at 11 stations each, from the northeast at 9, from the southeast and west at 6 each, from the north and northwest at 3 each, and from the east at 2 stations.

High Winds.—Saluda on the 7th.

#### MISCELLANEOUS PHENOMENA (with dates).

Solar Halos.—Charleston 11th.

Lunar Halos.—Charleston 7, 8, 11th.

Fogs, Dense.—Beaufort 30th; Bowman, Stateburg 22nd; Liberty 13th; Santuc 5th; Seivern 21st; Trial 22nd, 23rd; Yorkville 5, 16th.

Thunderstorms.—Beaufort 5, 6, 8, 9, 11, 12, 13, 14, 15, 17, 23, 24, 25th; Blackville 8, 9, 10, 11, 14, 15, 24, 25th; Bowman 9, 10, 11, 12, 13, 14, 15, 17, 22, 23rd; Cheraw 7, 8, 9, 15, 16, 25, 26th; Georgetown 25th; Heath Springs 7, 24th; Liberty 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 21, 23, 24, 25th; Little Mountain 7, 8, 12, 13th; Newberry 7, 8, 12, 23, 24th; Saluda 8, 9, 10, 12, 23rd; Santuc 4, 7, 8, 11, 12, 22, 23, 24th; Seivern 12, 13, 15, 24, 25, 26th; Society Hill 7, 12, 13, 16, 22, 24, 25th; Stateburg 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 23, 24, 25th; Summerville 7, 8, 9, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25th; Trenton 8, 9, 12, 13, 14, 15, 16, 23, 25th; Trial 9, 10, 11, 13, 14, 15, 16, 23, 25th; Yorkville 8, 9, 10, 15, 22, 25, 26th.

Summarized, there were 141 thunderstorms on 20 dates distributed, by dates, as follows: 2 on the 4th, 1 on the 5th, 2 on the 6th, 9 on the 7th, 12 on the 8th, 11 on the 9th, 7 on the 10th, 7 on the 11th, 11 on the 12th, 10 on the 13th, 8 on the 14th, 11 on the 15th, 6 on the 16th, 3 on the 17th, 1 on the 21st, 5 on the 22nd, 10 on the 23rd, 10 on the 24th, 12 on the 25th, and 3 on the 26th.

In addition to the above, thunderstorms were noted at Charleston on the 8, 10, 12, 14, 15, 16, 17, 18, 23, 24, 25, 26th; at Columbia on the 7, 8, 9, 11, 12, 13, 14, 15, 16, 23, 24, 25th.

#### ERRATA.

The following errors occur in the July number of the Monthly Report: Page 6, Seivern mean maximum temper-

ature 92.2°, should be 92.7°; page 5, Seivern mean monthly temperature 80.2°, should be 80.5°; pages 5 and 8, Walterboro total precipitation 5.75, should be 5.85; Winthrop College total precipitation 5.61, should be 5.77.

#### BAROMETER AND WIND TABLE FOR AUGUST, 1905.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.00      | 30.18    | 29    | 29.81   | 25    | 4,272           | 5.7             | 24                | ne.        | 26    |
| Charleston. ....       | 30.01      | 30.19    | 12    | 29.84   | 16    | 8,182           | 10.9            | 38                | ne.        | 28    |
| Charlotte, N. C. ....  | 30.03      | 30.24    | 29    | 29.82   | 15    | 3,981           | 5.4             | 28                | w.*        | 7     |
| Columbia. ....         | 30.00      | 30.20    | 29    | 29.83   | 15    | 4,185           | 5.6             | 25                | sw.        | 25    |
| Savannah, Ga. ....     | 30.00      | 30.19    | 12    | 29.83   | 25    | 5,122           | 6.9             | 21                | ne.        | 18    |
| Wilmington, N. C. .... | 29.99      | 30.17    | 12    | 29.78   | 16    | 5,415           | 7.3             | 27                | s.         | 8     |
| Averages. ....         | 30.00      | 30.24    | 29    | 29.78   | 16    | 5,193           | 7.0             | 28                | ne.        | 28    |

\* s. w. on 15th.

#### REMARKS BY OBSERVERS.

BARKSDALE.—Fodder from early corn was gathered. Picking cotton began late in the month, and indicated a short crop. Root crops came up to good stands. BATESBURG.—Half the bolls on early planted cotton opened during the month, and much was picked. About half the fodder from early corn was damaged by rain. BEAUFORT.—The mean temperature was 2.1° below normal; and precipitation 4.39 inches below. Cotton opened rapidly and on the least fertile fields most of it opened; the cotton crop is generally light. The closing days were favorable for haying, and planting fall crops. BENNETTSVILLE.—Cotton opened and picking became active. BOWMAN.—The month's weather was unfavorable for crops and general farm work. Cotton opened rapidly in some fields and was picked and marketed. DILLON.—The data for Sundays and Mondays were taken on Monday morning and evening respectively. August was cooler than July. HEATH SPRINGS.—The rainfall amounted to 8.07 inches and nearly all crops were damaged by too much rain. Cotton picking became active during the last week. LIBERTY.—The precipitation was favorable for fall crops. Cotton shed nearly two-thirds its squares at blooming, and no top crop formed, early bolls opened rapidly and picking began. Much corn fodder was damaged by wet weather. NEWBERRY.—During the thunderstorm on the night of the 7th, lightning struck two houses, and damaged electric light wires; one woman was struck and killed. SANTUC.—The month was very wet and stormy, lands and crops were damaged extensively by overflows, but mostly from the continuous rain, which caused cotton to shed excessively. SOCIETY HILL.—There were no fogs this August. STATEBURG.—The weather conditions were generally favorable to crops, there having been no prolonged drought or excessive rains, or prolonged wet periods. Crops that were in fair condition at beginning of the month progressed satisfactorily, and now promise fair yields. Poor crops can be traced to poor soils, insufficient fertilization, and improper cultivation. SUMMERVILLE.—Quite heavy dew on the 3rd, 7th, and 21st. Partial eclipse of the moon on 14th, 9:30 to 11:30 p. m. Partial eclipse of the sun, 30th, 6 a. m. to 7 a. m. TRENTON.—Precipitation 2.89 inches less than normal, and accumulated amount 9.31 inches less than the average for the first eight months of the year.



## CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST, 1905.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature in degrees Fahrenheit. |                            |          |       |         |       | Precipitation in inches. |        |                            |                       |                            | Sky.               |                    |                            |                       |                               | Observers.             |
|---------------------------------------|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|-----------------------|-------------------------------|------------------------|
|                                       |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. | Prevailing direction of wind. |                        |
| Aiken.                                | Aiken.        | 565             | 21                      | 82.9                               | +3.0                       | 107      | 7     | 46      | 26    | 40                       | 3.10   | -3.54                      | 1.25                  | 0                          | 6                  | 17                 | 11                         | 4                     | e.                            | L. M. Coward.          |
| Allendale.                            | Barnwell.     | 186             | 17                      | 70.5                               | -0.4                       | 98       | 2     | 62      | 22    | 25                       | 5.38   | -2.20                      | 2.05                  | 0                          | 8                  | 24                 | 0                          | 5                     | ne.                           | C. A. Glover.          |
| Anderson.                             | Anderson.     | 764             | 4                       | 77.3                               | +0.1                       | 101      | 2     | 57      | 20    | 32                       | 5.23   | -0.59                      | 0.93                  | 0                          | 12                 | 13                 | 5                          | 13                    | ne.                           | H. H. Russell.         |
| Augusta, Ga.                          | Richmond.     | 131             | 34                      | 70.4                               | 0.0                        | 99       | 2     | 62      | 28    | 28                       | 5.12   | -0.66                      | 2.94                  | 0                          | 12                 | 14                 | 14                         | 3                     | sw.                           | Weather Bureau.        |
| Barksdale.                            | Laurens.      | 780             | 4                       | 76.0                               | .....                      | 100      | 2     | 55      | 28    | 30                       | 4.20   | .....                      | 2.00                  | 0                          | 9                  | 18                 | 4                          | 1                     | ne.                           | J. T. Garrett.         |
| Batesburg.                            | Lexington.    | 656             | 17                      | 78.0                               | +1.2                       | 98       | *6    | 56      | 28    | 32                       | 4.68   | -0.93                      | 2.04                  | 0                          | 13                 | 20                 | 4                          | 7                     | s.                            | E. J. Hite.            |
| Beaufort.                             | Beaufort.     | 28              | 19                      | 79.6                               | -2.1                       | 94       | *11   | 65      | 28    | 21                       | 2.30   | -4.39                      | 0.83                  | 0                          | 14                 | 16                 | 11                         | 4                     | s.                            | S. M. Benton.          |
| Bennettsville.                        | Marlboro.     | 4               | 4                       | 78.8                               | .....                      | 96       | *25   | 62      | 8     | 26                       | 6.89   | .....                      | .....                 | 0                          | 2                  | 26                 | 0                          | 5                     | ne.                           | J. M. McCull.          |
| Blackville.                           | Barnwell.     | 296             | 17                      | 80.2                               | -0.1                       | 103      | 7     | 58      | 28    | 34                       | 3.81   | -2.18                      | 1.36                  | 0                          | 12                 | 19                 | 12                         | 0                     | ne.                           | G. D. C. Lange.        |
| Bluffs.                               | .....         | .....           | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 4.74   | .....                      | 1.58                  | 0                          | 5                  | 18                 | 2                          | 11                    | sw.                           | T. S. McMeekin.        |
| Bowman.                               | Orangeburg.   | 160             | 4                       | 78.2                               | .....                      | 99       | 7     | 57      | 29    | 33                       | 3.85   | .....                      | 1.60                  | 0                          | 13                 | 17                 | 13                         | 1                     | sw.                           | B. O. Evans.           |
| Calhoun Falls.                        | Abbeville.    | 508             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 2.93   | -4.45                      | 0.92                  | 0                          | 8                  | 21                 | 0                          | 10                    | ne.                           | P. J. Pfeiffer.        |
| Camden.                               | Kershaw.      | 222             | 39                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 7.74   | +2.82                      | 2.00                  | 0                          | 10                 | 15                 | 4                          | 12                    | e.                            | J. C. Whitaker.        |
| Chappells.                            | .....         | .....           | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 5.50   | .....                      | 1.44                  | 0                          | 10                 | 18                 | 3                          | 10                    | se.                           | W. F. Glenn.           |
| Charleston.                           | Charleston.   | 48              | 36                      | 79.4                               | -1.1                       | 94       | 31    | 67      | 28    | 20                       | 2.63   | -4.99                      | 0.97                  | 0                          | 10                 | 8                  | 19                         | 4                     | ne.                           | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 27                      | 75.4                               | -0.7                       | 96       | 7     | 55      | 28    | 27                       | 8.67   | +3.34                      | 2.56                  | 0                          | 17                 | 10                 | 10                         | 11                    | ne.                           | Weather Bureau.        |
| Cheraw (1).                           | Chesterfield. | 144             | 17                      | 76.6                               | -2.5                       | 98       | 21    | 55      | 28    | 30                       | 6.52   | +1.14                      | 1.27                  | 0                          | 13                 | 14                 | 5                          | 12                    | ne.                           | W. R. Godfrey.         |
| Cheraw (2).                           | .....         | 144             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.56   | +0.81                      | 1.33                  | 0                          | 16                 | 16                 | 6                          | 9                     | nw.                           | W. R. Godfrey.         |
| Clarks Hill.                          | Edgefield.    | 456             | 3                       | 79.0                               | .....                      | 100      | *6    | 56      | 28    | 34                       | 5.71   | .....                      | 1.80                  | 0                          | 11                 | 7                  | 8                          | 13                    | s.                            | Wm. S. Middleton.      |
| Clemson College.                      | Oconee.       | 850             | 14                      | 76.6                               | -3.5                       | 93       | 7     | 55      | 29    | 27                       | 7.20   | +2.28                      | 2.16                  | 0                          | 10                 | 13                 | 10                         | 8                     | s.                            | Jno. N. Hook.          |
| Columbia.                             | Richland.     | 351             | 18                      | 77.6                               | -2.2                       | 98       | 6     | 57      | 28    | 29                       | 9.30   | -2.45                      | 4.06                  | 0                          | 14                 | 13                 | 8                          | 10                    | s.                            | Central Office.        |
| Conway.                               | Horry.        | 25              | 14                      | 77.5                               | .....                      | 93       | *7    | 51      | 28    | 31                       | 6.85   | -0.64                      | 1.70                  | 0                          | 13                 | 24                 | 4                          | 3                     | s.                            | McQ. Quattlebaum.      |
| Darlington.                           | Darlington.   | 175             | 10                      | 76.4                               | .....                      | 100      | *6    | 52      | 28    | 33                       | 6.55   | +2.01                      | 1.83                  | 0                          | 11                 | 16                 | 14                         | 1                     | .....                         | Robt. E. James.        |
| Dillon.                               | Marion.       | 100             | 1                       | 77.8                               | .....                      | 99       | 7     | 54      | 27    | 33                       | 4.65   | .....                      | 2.99                  | 0                          | 9                  | .....              | .....                      | .....                 | .....                         | A. E. Rowell.          |
| Due West.                             | Abbeville.    | 740             | 4                       | 79.2                               | .....                      | 96       | 6     | 50      | 24    | 29                       | 3.22   | .....                      | 1.20                  | 0                          | .....              | 16                 | 3                          | 5                     | w.                            | Rev. O. Y. Bonner.     |
| Edisto.                               | Bamberg.      | 127             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.94   | +1.69                      | 1.93                  | 0                          | 10                 | 19                 | 3                          | 9                     | sw.                           | Mrs. M. Thompson.      |
| Effingham.                            | Florence.     | 106             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.70   | -2.04                      | 1.20                  | 0                          | 5                  | 20                 | 3                          | 8                     | ne.                           | H. B. McCall.          |
| Enoree.                               | Spartanburg.  | 987             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 8.33   | .....                      | 1.80                  | 0                          | 11                 | 17                 | 0                          | 14                    | se.                           | E. P. Porter.          |
| Florence.                             | Florence.     | 136             | 17                      | 77.8                               | -2.7                       | 100      | 6     | 54      | 28    | 36                       | 4.64   | -1.18                      | 1.42                  | 0                          | 9                  | 18                 | 4                          | 9                     | w.                            | H. K. Gilbert.         |
| Gaffney.                              | Cherokee.     | 893             | 9                       | 77.3                               | .....                      | 98       | 7     | 52      | 29    | 39                       | 8.69   | +2.66                      | 3.76                  | 0                          | 12                 | 13                 | 7                          | 11                    | se.                           | B. F. Camp.            |
| Georgetown.                           | Georgetown.   | 12              | 12                      | 77.6                               | -3.2                       | 92       | 16    | 62      | 27    | 20                       | 2.72   | 3.28                       | 1.40                  | 0                          | 8                  | 18                 | 13                         | 0                     | sw.                           | Reid Whitford.         |
| Greenville.                           | Greenville.   | 989             | 13                      | 72.3                               | -4.8                       | 90       | *6    | 50      | 29    | 24                       | 7.98   | +2.42                      | 2.74                  | 0                          | 14                 | 14                 | 2                          | 15                    | w.                            | Mrs. S. A. Crittenden. |
| Greenwood.                            | Greenwood.    | 671             | 17                      | 76.4                               | -2.8                       | 95       | *6    | 56      | 28    | 30                       | 4.12   | -1.40                      | 0.25                  | 0                          | 8                  | 20                 | 0                          | 11                    | sw.                           | M. M. Calhoun.         |
| Heath Springs.                        | Lancaster.    | 4               | 8                       | .....                              | .....                      | 100      | 7     | 58      | 27    | 30                       | 8.07   | .....                      | 1.48                  | 0                          | 12                 | 17                 | 8                          | 6                     | ne.                           | J. A. Weaver.          |
| Kingstree (1).                        | Williamsburg. | 54              | 17                      | 79.6                               | -0.4                       | 97       | 7     | 62      | 28    | 27                       | 4.41   | -1.64                      | 1.11                  | 0                          | 7                  | 23                 | 3                          | 5                     | ne.                           | J. A. Scott.           |
| Kingstree (2).                        | .....         | 54              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 4.33   | -2.05                      | 1.00                  | 0                          | 7                  | 20                 | 4                          | 7                     | ne.                           | A. O. Matthews.        |
| Liberty.                              | Pickens.      | 900             | 11                      | 76.6                               | -0.8                       | 95       | 6     | 52      | 29    | 32                       | 8.70   | +0.89                      | 1.90                  | 0                          | 12                 | 13                 | 15                         | 3                     | se.                           | Jno. T. Boggs.         |
| Little Mountain.                      | Newberry.     | 711             | 12                      | 77.8                               | -2.4                       | 101      | 7     | 56      | *28   | 30                       | 2.91   | -2.23                      | 0.75                  | 0                          | 11                 | 15                 | 10                         | 6                     | .....                         | John M. Sease, M. D.   |
| Lugoff.                               | Kershaw.      | 168             | 4                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | 0                          | .....              | .....              | .....                      | .....                 | .....                         | W. J. Burdell, M. D.   |
| Newberry.                             | Newberry.     | 502             | 1                       | 78.4                               | 0.5                        | 101      | 6     | 56      | *28   | 34                       | 4.23   | -1.07                      | 1.18                  | 0                          | 9                  | 9                  | 12                         | 10                    | sw.                           | W. G. Peterson.        |
| Pelzer.                               | Anderson.     | 873             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 4.82   | .....                      | 2.00                  | 0                          | 11                 | 16                 | 2                          | 13                    | w.                            | John M. Ward.          |
| Pinopolis.                            | Berkeley.     | 54              | 12                      | 76.3                               | -2.5                       | 90       | 6     | 62      | 28    | .....                    | 4.82   | -4.49                      | 1.47                  | 0                          | 9                  | 12                 | 6                          | 13                    | nw.                           | E. P. Ravenel.         |
| St. Georges.                          | Dorchester.   | 109             | 17                      | 78.3                               | -1.6                       | 97       | 7     | 60      | 28    | 26                       | 4.15   | -2.25                      | 0.98                  | 0                          | 9                  | 22                 | 0                          | 9                     | .....                         | W. B. Raysor.          |
| St. Matthew.                          | Orangeburg.   | 269             | 17                      | 77.4                               | -3.0                       | 96       | 7     | 59      | 28    | 26                       | 4.75   | -1.57                      | 1.05                  | 0                          | 12                 | 24                 | 0                          | 7                     | .....                         | J. S. Wannamaker.      |
| St. Stephen.                          | Berkeley.     | 73              | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.30   | -1.52                      | 1.45                  | 0                          | 8                  | 18                 | 5                          | 8                     | s.                            | C. T. Shuler.          |
| Saluda.                               | Saluda.       | 536             | 4                       | 77.4                               | .....                      | 100      | *6    | 56      | *28   | 35                       | 7.98   | .....                      | 2.29                  | 0                          | 12                 | 20                 | 4                          | 7                     | ne.                           | Alvin Etheridge.       |
| Santuc.                               | Union.        | 512             | 12                      | 76.3                               | -2.2                       | 100      | 7     | 54      | 28    | 32                       | 10.87  | +5.78                      | 3.41                  | 0                          | 16                 | 7                  | 15                         | 7                     | w.                            | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham.      | 71              | 36                      | 97.6                               | -0.7                       | 94       | 31    | 68      | 28    | 23                       | 4.20   | -3.54                      | 1.87                  | 0                          | 12                 | 8                  | 12                         | 11                    | ne.                           | Weather Bureau.        |
| Severn.                               | Aiken.        | 482             | 4                       | 77.6                               | -2.7                       | 100      | 7     | 53      | 28    | 41                       | 6.02   | 0.42                       | 2.52                  | 0                          | 13                 | 11                 | 9                          | 11                    | ne.                           | Geo. C. Gunter.        |
| Smiths Mills.                         | Williamsburg. | 62              | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 4.25   | -2.42                      | 1.00                  | 0                          | 9                  | 23                 | 1                          | 7                     | sw.                           | H. van Keuren.         |
| Society Hill.                         | Darlington.   | 192             | 14                      | 77.3                               | -1.5                       | 94       | 7     | 57      | 27    | 22                       | 7.84   | +2.22                      | 2.86                  | 0                          | 12                 | 18                 | 8                          | 5                     | sw.                           | J. P. Lucas.           |
| Spartanburg.                          | Spartanburg.  | 875             | 14                      | 76.5                               | -2.5                       | 97       | 7     | 53      | 29    | 35                       | 7.19   | +1.66                      | 1.65                  | 0                          | 12                 | 12                 | 2                          | 17                    | .....                         | F. P. Robinson.        |
| Stateburg.                            | Sumter.       | 500             | 28                      | 77.8                               | +0.1                       | 97       | 7     | 57      | 28    | 25                       | 6.19   | +1.06                      | 1.42                  | 0                          | 14                 | 11                 | 7                          | 13                    | se.                           | W. W. Anderson, M. D.  |
| Summerville.                          | Dorchester.   | 75              | 8                       | 77.3                               | -2.7                       | 94       | 6     | 62      | *28   | 28                       | 7.61   | -1.83                      | 2.15                  | 0                          | 14                 | 8                  | 20                         | 3                     | s.                            | Miss E. H. Gadsden.    |
| Sumter.                               | Sumter.       | 169             | 4                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | 0                          | .....              | .....              | .....                      | .....                 | .....                         | H. A. Moses.           |
| Trenton.                              | Edgefield.    | 620             | 12                      | 77.5                               | -2.9                       | 100      | 7     | 57      | 28    | 26                       | 4.01   | -2.89                      | 1.02                  | 0                          | 9                  | 11                 | 17                         | 3                     | s.                            | C. A. Long.            |
| Trial.                                | Berkeley.     | 85              | 19                      | 77.2                               | -0.5                       | 99       | 7     | 57      | 28    | 35                       | 3.67   | -3.95                      | 1.40                  | 0                          | 9                  | 11                 | 9                          | 11                    | s.                            | Etsell Gaillard.       |
| Walhalla.                             | Oconee.       | 1061            | 14                      | 74.4                               | -2.3                       | 94       | 6     | 55      | *28   | 37                       | 6.25   | .....                      | 2.00                  | 0                          | .....              | 10                 | 8                          | 6                     | sw.                           | L. E. Isbell.          |
| Walterboro.                           | Colleton.     | 2               | 2                       | 79.4                               | .....                      | 98       | 15    | 61      | 30    | 32                       | 3.13   | .....                      | 0.73                  | 0                          | 12                 | 11                 | 15                         | 5                     | e.                            | J. A. Westerberg.      |
| Wilmington, N. C.                     | New Hanover.  | 52              | 36                      | 77.1                               | -1.1                       | 93       | 31    | 58      | 28    | 25                       | 2.93   | -4.54                      | 1.21                  | 0                          | 11                 | 11                 | 14                         | 6                     | sw.                           | Weather Bureau.        |
| Winnaboro.                            | Fairfield.    | 545             | 16                      | 77.1                               | -0.9                       | 101      | 7     | 55      | 28    | 27                       | 9.50   | +4.70                      | 2.75                  | 0                          | 10                 | 14                 | 17                         | 0                     | se.                           | John W. Seigler.       |
| Winthrop College.                     | York.         | 690             | 6                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 4.77   | -2.00                      | 1.45                  | 0                          | 9                  | 21                 | 2                          | 8                     | .....                         | Geo. B. Green.         |
| Yemassee.                             | Beaufort.     | 23              | 10                      | 78.3                               | -3.3                       | 97       | 6     | 61      | 30    | 33                       | 4.77   | -2.00                      | 1.45                  | 0                          | 9                  | 21                 | 2                          | 8                     | .....                         | J. G. Hutson.          |
| Yorkville.                            | York.         | 680             | 17                      | 77.6                               | -0.3                       | 100      | 7     | 56      | *28   | 29                       | 8.62   | +3.66                      | 1.29                  | 0                          | 14                 | 6                  | 13                         | 12                    | sw.                           | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 77.9                               | -1.5                       | 107      | 7     | 46      | 26    | 41                       | 5.69   | -0.54                      | 5.78                  | 0                          | 11                 | 15                 | 8                          | 8                     | sw.                           | .....                  |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. † Minimum thermometer not standard.  
§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc. ° For 24 days.



STATIONS.

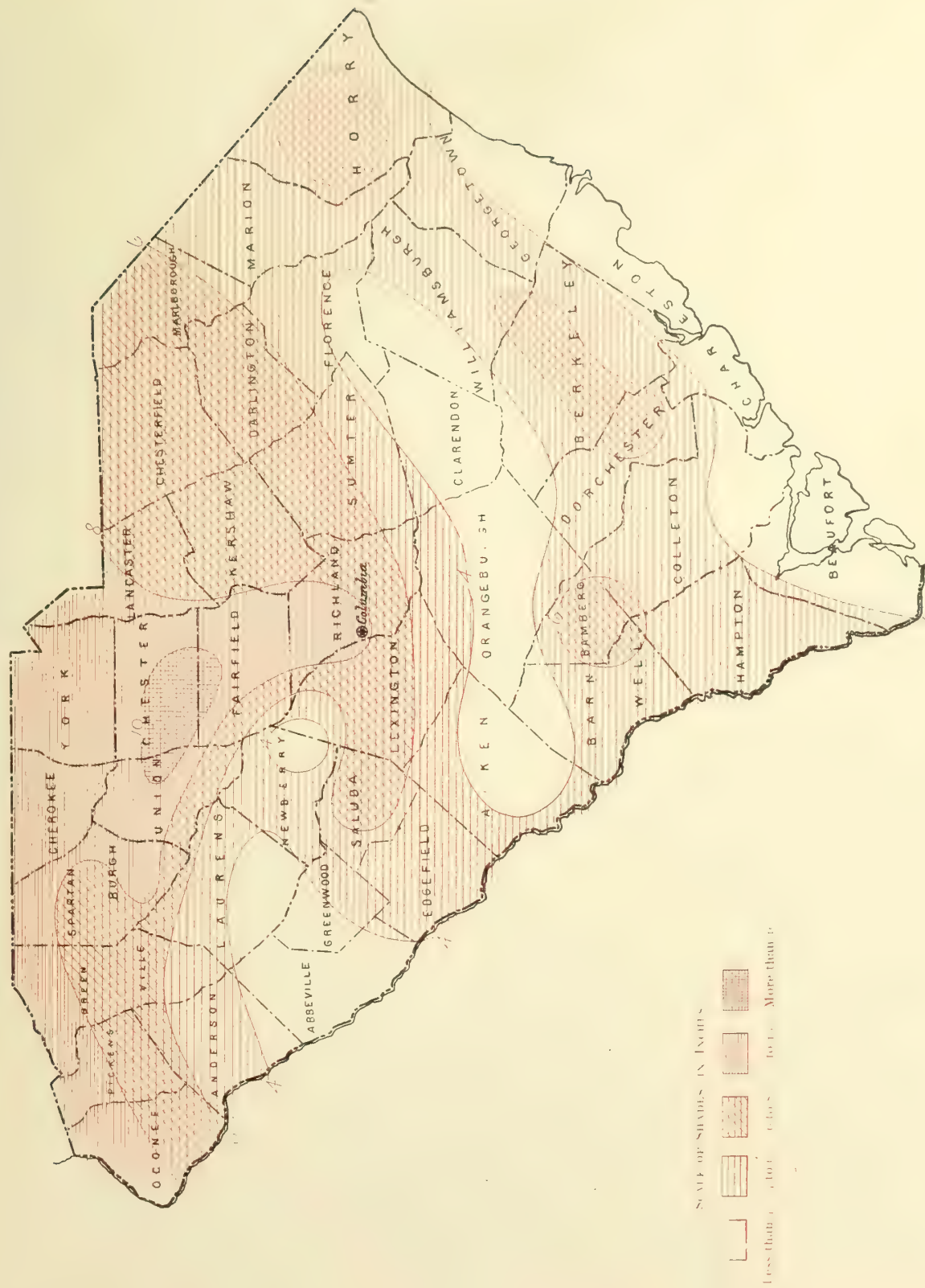
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\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.

\*The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR AUGUST, 1905.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1905.

| STATIONS.         | Day of Month. |   |   |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |     |    |      |      |      |      |      |      |     |     |    |    | Total. |      |
|-------------------|---------------|---|---|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|----|------|------|------|------|------|------|-----|-----|----|----|--------|------|
|                   | 1             | 2 | 3 | 4    | 5    | 6   | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19  | 20  | 21 | 22   | 23   | 24   | 25   | 26   | 27   | 28  | 29  | 30 | 31 |        |      |
| Aiken             |               |   |   |      |      |     |      | .20  | .75  | .20  |      | .10  | 1.25 |      | .60  |      |      |      |     |     |    |      |      |      |      |      |      |     |     |    |    | 3.10   |      |
| Allendale         |               |   |   |      |      |     |      |      | .33  | 1.55 |      | .25  |      | .75  | .25  |      |      |      | .10 |     |    |      |      |      | 2.05 | .10  |      |     |     |    |    | 5.21   |      |
| Anderson          |               |   |   | .07  |      |     |      | .80  | .14  |      | .82  | .53  | .93  |      | .21  | .74  |      | .07  | .50 |     |    |      |      | .11  |      | .31  |      |     |     |    |    | 5.21   |      |
| Augusta, Ga.      |               |   |   |      |      |     |      | .97  | 1.97 | 1.54 | .01  | .05  | .03  |      | .08  | T.   | .03  | T.   | .16 |     |    |      |      | .25  | T.   | .02  | .01  |     |     |    |    | 5.21   |      |
| Barksdale         |               |   |   |      | T.   |     |      | .60  |      | .40  | .30  |      | .20  | .30  |      | .20  |      | .10  |     | T.  |    |      |      | .10  |      | 2.00 | T.   |     |     |    |    | 5.21   |      |
| Batesburg         |               |   |   |      |      |     |      | .12  | 1.02 | .09  | .07  | .02  | 2.04 | 1.03 | T.   | .03  | .08  | T.   |     |     |    |      |      | .41  | .14  | .57  | .16  |     |     |    |    | 5.21   |      |
| Beaufort          |               |   |   |      | .05  |     |      | .02  | .18  | .07  | .01  | .15  | .07  | .66  | .09  |      | .02  |      |     |     |    |      |      |      | .83  | .03  |      | .09 | .03 |    |    | 4.21   |      |
| Bennettsville     |               |   |   |      |      |     |      | 1.11 | 5.78 | T.   |      |      |      |      |      |      |      |      |     |     |    |      |      |      |      |      |      |     |     |    |    | 6.80   |      |
| Blackville        |               |   |   |      |      |     |      | .03  | .35  | .91  | .05  | .01  |      | 1.36 | T.   | .23  |      | .03  |     |     |    |      |      |      | .64  | .05  | .14  | .01 |     |    |    | 3.81   |      |
| Blairs            |               |   |   |      |      |     |      | .60  | 1.38 |      | 1.16 | .02  | 1.58 |      |      |      |      |      |     |     |    |      |      |      |      |      |      |     |     |    |    | 4.74   |      |
| Bowman            |               |   |   | T.   | T.   | T.  | T.   | .04  | .15  | .12  | 1.22 | .08  | .06  | .03  | .07  | T.   |      |      |     |     |    |      | .16  | .09  | 1.60 | .18  | .05  |     |     |    |    | 3.85   |      |
| Calhoun Falls     |               |   |   |      |      |     |      | .22  | .39  |      | .92  |      | .42  | .20  |      | .21  | .25  |      |     |     |    |      |      |      |      |      | .32  |     |     |    |    | 2.93   |      |
| Camden            |               |   |   |      |      |     |      | .30  | 2.00 | 1.10 | .15  |      |      |      | .48  | .93  | .43  | .15  |     |     |    |      |      |      |      | .20  | 2.00 |     |     |    |    | 7.74   |      |
| Chappells         |               |   |   |      |      |     |      | 1.02 | .52  | 1.44 | .04  |      | .68  | .02  |      |      | .02  | .04  |     |     |    |      |      |      |      | .96  | .66  |     |     |    |    | 5.50   |      |
| Charleston        |               |   |   |      |      |     |      | .18  | .01  | .97  |      | .31  |      | .33  | .34  | T.   | .03  | .14  | T.  |     |    |      | T.   |      | .13  | T.   | .19  |     |     |    |    | 2.03   |      |
| Charlotte, N. C.  |               |   |   | 1.02 |      |     |      | .61  | .65  | .74  | 2.26 | .73  | .33  | T.   | .55  | .07  | .02  | .02  | .03 |     |    | .02  |      | .86  | .01  | .73  | .02  |     |     |    |    | 8.67   |      |
| Cheraw(1)         |               |   |   | T.   |      |     |      | .78  | 1.20 | 1.21 | .24  | .04  |      | .05  | 1.27 | .77  | .06  |      |     |     |    |      |      |      | .05  | .25  | .53  | .07 |     |    |    | 6.52   |      |
| Cheraw(2)         |               |   |   | T.   |      |     |      | .82  | 1.18 | 1.33 | .26  | .03  | .01  | .65  | .70  | .66  | .06  | .01  |     |     |    |      | .02  |      | .04  | .16  | .57  | .06 |     |    |    | 6.56   |      |
| Clark's Hill      |               |   |   |      |      |     |      | .47  | .57  | T.   | .08  | 1.08 | .06  |      | .32  |      | .62  | .15  |     |     |    | 1.80 |      | .45  |      | .11  |      |     |     |    |    | 5.71   |      |
| Clemson College   |               |   |   | .66  |      |     |      | .29  | .38  |      | .15  | 2.16 | .13  | .28  |      | 1.20 |      | .54  | T.  |     |    |      |      |      | 1.41 |      |      |     |     |    |    | 7.20   |      |
| Columbia          |               |   |   |      |      |     |      | .75  | 2.18 | 1.99 | .02  | .78  | .59  | .49  | 1.38 | .26  | T.   | .07  |     |     |    |      |      | .18  | .04  | .69  | .06  |     |     |    |    | 9.30   |      |
| Conway            |               |   |   |      |      | .25 |      | .20  | 1.10 | .30  | 1.10 | .10  |      |      | .40  | .10  | .05  |      |     |     |    |      |      | .30  |      | .10  | 1.70 | .55 |     |    |    | 6.85   |      |
| Darlington        |               |   |   |      |      |     |      | .23  |      | 1.83 | .30  |      |      | .07  | .49  | 1.10 | .56  |      |     |     |    |      |      |      |      |      |      |     |     |    |    | 6.55   |      |
| Dillon            |               |   |   |      |      |     |      | .30  | .07  | .30  | .57  | .06  |      | .06  | .05  | .25  | T.   |      |     |     |    |      | 2.99 | T.   |      |      |      |     |     |    |    | 4.65   |      |
| Due West          |               |   |   |      |      |     |      | .18  |      |      | .16  |      |      |      |      |      |      | .99  | .32 |     |    |      |      |      |      |      |      |     |     |    |    |        |      |
| Edisto            |               |   |   |      |      |     |      | .83  | .50  | .43  | .33  | .50  | T.   | .40  | 1.20 |      |      |      | .25 |     |    |      |      | 1.93 | .57  |      |      |     |     |    |    | 6.94   |      |
| Effingham         |               |   |   |      |      |     |      | T.   | 1.20 |      | .50  |      |      |      | .40  |      | T.   | .90  |     |     |    |      |      |      |      |      |      |     |     |    |    | 3.70   |      |
| Enoree            |               |   |   |      | 1.80 |     |      | .98  | .98  | .75  | .96  |      |      |      | .22  | .20  | .35  | .85  |     |     |    |      |      | 1.20 | .04  |      |      | .70 |     |    |    | 8.33   |      |
| Florence          |               |   |   |      |      |     |      | T.   | .28  | 1.42 | .14  | .06  |      | .10  | .20  | T.   |      | 1.10 |     |     |    |      |      |      | .04  | 1.30 | T.   |     |     |    |    | 4.64   |      |
| Gaffney           |               |   |   | .32  | 1.28 |     |      |      |      | .50  | 3.76 | 1.60 | 1.50 |      | .14  |      | .06  |      | .08 |     |    |      |      |      | .10  | .20  |      |     |     |    |    | 8.60   |      |
| Georgetown        |               |   |   | T.   | T.   | T.  | T.   | 1.40 | T.   | .50  | T.   | .12  | T.   | .12  | .30  | .05  | T.   |      |     |     |    |      | T.   |      | .15  | .08  |      |     |     |    |    | 2.72   |      |
| Greenville        |               |   |   |      | 1.62 |     |      | .30  | 1.04 | .06  | .56  | 2.74 |      | .10  |      | .30  | .31  | .08  | .20 | .06 |    | T.   |      |      | .53  | .08  | T.   |     |     |    |    | 7.98   |      |
| Greenwood         |               |   |   |      |      |     |      | .80  | .55  | .70  |      |      | .18  |      |      | .59  | .25  |      |     |     |    |      |      |      | .20  | .85  |      |     |     |    |    | 4.12   |      |
| Heath Springs     |               |   |   | .19  |      |     |      | .88  | 1.20 | 1.48 | .50  | .45  | .50  |      | .05  | T.   | .80  |      |     |     |    |      |      | .35  | 1.37 | .30  |      |     |     |    |    | 8.07   |      |
| Kingstree(1)      |               |   |   |      |      |     |      |      | .85  | .44  | .67  | T.   |      |      | .34  | .72  | T.   |      |     |     |    |      |      | 1.11 | T.   | .31  |      |     |     |    |    | 4.44   |      |
| Kingstree(2)      |               |   |   |      |      |     |      |      | .70  | .45  | .80  |      |      |      |      | .98  | .10  |      |     |     |    |      |      | 1.00 | .30  |      |      |     |     |    |    | 4.33   |      |
| Liberty           |               |   |   | .80  |      |     |      | .60  | T.   | T.   | 1.90 | T.   | 1.00 | T.   | .80  | .60  | .40  | .20  | .30 |     |    |      |      | 1.10 | 1.90 | .10  |      |     |     |    |    | 8.70   |      |
| Little Mountain   |               |   |   |      |      |     |      | .07  | .60  | .75  | .26  | .11  | .60  | .06  |      |      | .03  | .07  |     |     |    |      |      | .10  |      | .26  |      |     |     |    |    | 2.91   |      |
| Lugoff            |               |   |   |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |     |    |      |      |      |      |      |      |     |     |    |    |        |      |
| Newberry          |               |   |   | T.   |      |     | 1.18 | .73  | 1.15 | .06  | T.   | .74  |      |      | T.   |      | .01  | T.   | T.  |     |    |      |      | .14  | .20  |      | .02  |     |     |    |    | 4.23   |      |
| Pelzer            |               |   |   |      | .60  |     |      | .53  | .07  | .43  | 2.00 |      | .35  |      | .06  | .60  | .05  |      | .11 |     |    |      |      |      |      | .02  |      |     |     |    |    | 4.82   |      |
| Pinopolis         |               |   |   |      |      |     |      | 1.47 | 1.37 | .83  | .25  | .31  |      |      |      | .03  |      |      |     |     |    |      |      |      | .07  | .47  | .02  |     |     |    |    | 4.82   |      |
| St. Georges       |               |   |   |      |      |     |      |      | .25  | .10  | .98  |      | .40  |      | .77  | .50  |      | .55  |     |     |    |      |      |      | .40  | .20  |      |     |     |    |    | 4.15   |      |
| St. Matthew       |               |   |   |      |      |     |      | .24  | .16  | .38  | .62  |      |      |      | .31  | .09  | 1.05 | .40  |     |     |    |      |      |      | .70  | .12  | .65  | .03 |     |    |    | 4.75   |      |
| St. Stephen       |               |   |   |      |      |     |      |      | 1.65 | 1.45 | 1.36 |      |      |      | .03  | .29  | .12  | .01  |     |     |    |      |      |      |      |      | 1.36 |     |     |    |    | 6.30   |      |
| Saluda            |               |   |   |      |      |     |      | 1.39 | 2.18 | .97  | .09  |      | 2.29 |      |      | .04  | .04  |      |     |     |    |      |      |      | .75  | .01  | .16  | .02 |     |    |    |        | 7.98 |
| Santuc            |               |   |   | .03  |      |     |      | 3.41 | 1.26 | 1.16 | .36  | .55  | .05  | .20  | .04  | .21  | .07  | .22  | .96 |     | T. | 1.02 | .19  | 1.14 |      | T.   |      |     |     |    |    | 10.81  |      |
| Savannah, Ga.     |               |   |   | .12  |      |     |      |      | 1.17 | .03  | T.   | .02  | 1.01 | .86  | .40  | T.   |      | .16  | .02 |     |    |      |      |      | .02  | .26  | T.   | T.  | .13 |    |    | 4.20   |      |
| Severn            |               |   |   |      |      |     |      | T.   | 1.55 | .83  | .21  | .04  | .10  | .10  | .01  | T.   | .08  | .01  |     |     |    |      | T.   |      | .67  | 2.52 | .56  | .04 |     |    |    | 6.02   |      |
| Smiths Mills      |               |   |   |      |      |     |      |      | 1.00 | .45  |      | .20  | T.   |      | .30  | .90  | T.   |      |     |     |    |      | T.   |      |      |      | .30  | .50 | .20 |    |    | 4.25   |      |
| Society Hill      |               |   |   |      |      |     |      | 1.04 | 2.86 |      | .05  | .05  | .07  |      | 1.04 | .01  |      |      |     |     |    | .02  | .01  | .91  | 1.76 | .02  |      |     |     |    |    | 7.84   |      |
| Spartanburg       |               |   |   | T.   | .65  |     |      | 1.57 | .02  | .25  | 1.65 | .77  | .85  |      | .08  |      | .50  | .08  | T.  |     |    |      |      |      |      | .75  | .02  |     |     |    |    | 7.19   |      |
| Stateburg         |               |   |   |      |      |     |      | .42  | 1.01 | 1.42 | .25  | .11  |      | .04  | .22  | .66  | .11  | .15  |     |     |    |      | 1.11 | .25  | .26  | .18  |      |     |     |    |    | 6.19   |      |
| Summerville       |               |   |   | T.   | T.   | T.  |      | .10  | 2.15 | .15  | 1.40 | .06  | .33  | .53  | .71  | .03  | 1.68 | .11  |     |     |    |      | T.   | T.   | .20  | .08  | .08  | T.  |     |    |    | 7.61   |      |
| Sumter            |               |   |   |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |     |    |      |      |      |      |      |      |     |     |    |    |        |      |
| Trenton           |               |   |   |      |      |     |      | .75  | 1.02 |      |      | .31  | .75  |      |      | .02  | .16  |      |     |     |    |      | .21  |      | .31  | .48  |      |     |     |    |    | 4.01   |      |
| Trial             |               |   |   |      |      |     |      |      | 1.40 | .47  | .24  |      |      |      | .17  | .34  | .23  | .20  | .10 |     |    |      |      | T.   |      |      |      | .52 | T.  |    |    | 3.67   |      |
| Walhalla          |               |   |   | .10  |      |     |      | .30  | 1.33 |      | 2.00 | .60  | .32  |      | .35  | .40  | .10  |      | .75 |     |    |      |      |      |      |      |      |     |     |    |    |        |      |
| Walterboro        |               |   |   | T.   |      |     |      | .07  | .73  | .35  | .10  | .06  |      |      | .20  | .39  | .04  | .60  |     |     |    |      | T.   |      |      |      | .52  | .02 | .05 |    |    | 3.13   |      |
| Wilmington, N. C. |               |   |   | .05  |      |     |      | T.   | .61  | .60  | .16  | .10  | .64  | T.   | .30  | .31  | .04  |      |     | T.  |    |      |      |      |      | .03  | .09  |     |     |    |    | 2.93   |      |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR SEPTEMBER, 1905.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU.

BY

J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

OCTOBER 25, 1905.



# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR SEPTEMBER, 1905.

(Arrows fly with the wind).



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

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No. 9.

## PROGRESS OF FARM WORK.

The September weather was unusually favorable for the rapid advance to maturity of cotton, and for securing the lint in a most excellent condition, owing to the small amount of precipitation over the larger portion of the State. The conditions were least favorable in Darlington and surrounding counties where a short period of heavy precipitation did much damage to open cotton, as well as to lands physically.

The warm, dry weather caused cotton to open rapidly, some to open prematurely, and there were so few rainy days that picking made almost uninterrupted progress, so that by the close of the month it was estimated that over two-thirds of the crop had been picked, making it an unusually early gathered crop.

There was practically no change in the condition of the cotton crop except a slight tendency toward deterioration, for while on the sandy lands the stalks shed their leaves and some young bolls, on clay lands and on well fertilized lands generally, the plants continued to bloom and to fruit throughout the month. However, the fruitage after the middle of September seldom, if ever, arrives at maturity in South Carolina, so that the late fruitage was of no material benefit. Over the greater portion of the State there was very little top crop taken on that will eventually ripen and open. Sea-island cotton opened less rapidly and only about one-third of the crop was picked.

The prevailing weather affected the bulk of the corn crop very little although some late corn ripened during the month, and its maturity was hastened by the clear, dry weather. A large crop of hay was secured in prime condition. Rice harvest was finished and thrashing made favorable progress.

The ground became too hard and dry during the latter half of the month for plowing and for seeding fall oats. It was also too dry in the coast truck regions, especially in the Beaufort district where seeds germinated poorly and where, in consequence, the winter truck season will be a comparative failure. The conditions were better in the Charleston district although not entirely favorable.

All late food and forage crops suffered for rain in the central and western counties, with a result that a small yield of sweet potatoes is expected. In a number of localities wells failed and small streams dried up.

## SEPTEMBER WEATHER.

The current September had nearly normal weather, in comparison with the record for previous years since 1894. The mean temperature was slightly higher due to greater warmth during the daytime, as the mean of the minimum, or night

temperatures, approximates the average of the last 12 years. There has been but one year, 1895, when the average precipitation was less, but this month would have been equally as dry, or dryer, except for the heavy, in places excessive, rainfall over comparatively small areas in the northeastern counties on the 12th. It is not unusual for some portion of the State to have no precipitation during September, there having been three years out of the last 12 with no rain, or else only a trace, at one or more stations. The average number of rainy days is six, or two more than the number this month. The average numbers of clear, partly cloudy and cloudy days are 16, 8 and 6, respectively, which agrees with like data this month.

Two more columns have been added to the tabular data, the one showing the average maximum temperature, the other the average minimum temperature.

## Temperature, Rainy Days and Wind.

| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|
| 1894 .. | 75.0       | 83.0      | 67.2      | 100           | 52           | 12          | ne.               |
| 1895 .. | 76.9       | 89.5      | 75.4      | 106           | 35           | 4           | ne.               |
| 1896 .. | 75.0       | 86.2      | 63.9      | 105           | 39           | 5           | ne.               |
| 1897 .. | 73.3       | 84.2      | 62.4      | 100           | 42           | 4           | ne.               |
| 1898 .. | 76.0       | 84.1      | 67.9      | 96            | 48           | 7           | ne.               |
| 1899 .. | 72.8       | 83.3      | 62.3      | 102           | 34           | 6           | ne.               |
| 1900 .. | 77.1       | 88.0      | 66.2      | 100           | 45           | 5           | ne.               |
| 1901 .. | 73.1       | 82.5      | 63.7      | 98            | 46           | 6           | ne.               |
| 1902 .. | 72.1       | 82.1      | 62.1      | 98            | 43           | 8           | ne.               |
| 1903 .. | 72.7       | 82.9      | 62.5      | 100           | 41           | 5           | ne.               |
| 1904 .. | 75.8       | 85.8      | 65.8      | 101           | 44           | 4           | ne.               |
| 1905 .. | 76.2       | 86.8      | 65.6      | 98            | 49           | 4           | ne.               |

## Precipitation.

| Year.    | State Average. | Greatest Monthly. | Place.        | Least Monthly. | Place.              |
|----------|----------------|-------------------|---------------|----------------|---------------------|
| 1894.... | 6.51           | 10.94             | Charleston.   | 2.34           | Central.            |
| 1895.... | 1.29           | 6.94              | Charleston.   | 0.00           | Central & 2 others. |
| 1896.... | 2.94           | 8.06              | Central.      | 0.50           | Shaws Forks.        |
| 1897.... | 2.91           | 5.52              | St. Matthews. | 0.80           | Walhalla.           |
| 1898.... | 4.06           | 10.32             | Mt. Carmel.   | 0.50           | Batesburg.          |
| 1899.... | 2.55           | 5.25              | Smiths Mills. | 0.55           | Anderson.           |
| 1900.... | 2.83           | 6.51              | Trials.       | 1.08           | Temperance.         |
| 1901.... | 4.66           | 8.40              | Cheraw.       | 0.30           | Bowman.             |
| 1902.... | 3.74           | 7.97              | Beaufort.     | 1.10           | Bowman.             |
| 1903.... | 3.62           | 9.43              | Yemassee.     | 0.60           | Due West.           |
| 1904.... | 2.46           | 9.50              | Smiths Mills. | Trace          | Little Mountain.    |
| 1905.... | 1.91           | 8.60              | Darlington.   | Trace          | Due West.           |

## ERRATA.

In the August Monthly Report, on page 6, the mean maximum temperature of 87.0 at Bennettsville, should be 87.9, and on page 5, the mean temperature of 78.7 at Bennettsville, should be 79.3; on pages 5 and 8, Seivern, total precipitation 6.02, should be 6.72.

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for September, 1905, was 76.2° which is 2.0° above normal. The highest local mean was 80.4° at Aiken, the lowest was 71.2° at Greenville. The monthly extremes of temperature were a maximum of 98° at Aiken on the 1st and 2nd; Batesburg on the 20th; Blackville on the 1st, 19th, 20th; Dillon, Florence, Newberry, Saluda and Seivern on the 1st; and a minimum of 49° at Seivern on the 29th, making the State range 49°. The greatest local monthly range was 49° at Seivern, the least was 25° at Charleston. The mean of the daily maximum temperatures was 86.8°, and of the daily minimum temperatures was 65.6°, making the average daily range 21.2°.



## Precipitation, in Inches.

The precipitation averaged 1.91 inches for the State, which is 1.91 below normal (or half the normal amount). The greatest local monthly amount was 8.60 inches at Darlington, the least was "Trace" at Due West. The greatest 24-hour fall was 8.00 inches at Darlington on the 12th. The average number of days with rain was 4, ranging from "none" at Due West to 9 at Beaufort and Charleston.

Hail.—Cheraw 12th, Seivern 22nd.

Excessive Precipitation.—Darlington, 12th, 8.00 in 24 hours.

## Weather.

The average number of clear days was 16, of partly cloudy ones 8, and of cloudy ones 6.

## Winds.

The prevailing direction of the wind was from the northeast at 16 stations, from the southwest at 10, from the east at 9, from the west at 5, from the north at 4, from the south at 3, and from the southeast and northwest at 2 each.

High Winds.—Charleston 14th, Columbia 4th.

BAROMETER AND WIND TABLE FOR SEPTEMBER, 1905.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.04      | 30.21    | 10    | 29.90   | 2     | 3,903           | 5.4             | 24                | sw.        | 4     |
| Charleston. ....       | 30.04      | 30.21    | 10    | 29.94   | 17    | 7,201           | 10.0            | 32                | e.         | 14    |
| Charlotte, N. C. ....  | 30.06      | 30.28    | 10    | 29.90   | 2     | 3,551           | 4.9             | 18                | sw.        | 11    |
| Columbia. ....         | 30.04      | 30.26    | 10    | 29.90   | 2     | 3,946           | 5.5             | 30                | w.         | 4     |
| Savannah, Ga. ....     | 30.02      | 30.18    | 10    | 29.91   | 21    | 4,908           | 6.8             | 24                | e.         | 14    |
| Wilmington, N. C. .... | 30.03      | 30.23    | 10    | 29.92   | 17    | 4,610           | 6.4             | 29                | nw.        | 12    |
| Averages. ....         | 30.04      | 30.28    | 10    | 29.90   | 2     | 4,686           | 6.5             | 32                | e.         | 14    |

## MISCELLANEOUS PHENOMENA (with dates).

Halos, Solar.—Stateburg 21st.

Dews, Heavy.—Summerville 8, 12, 18, 20th.

Fogs, Dense.—Beaufort 22, 23, 25th; Blackville 14, 19th; Bowman 23, 24, 25, 26th; Charleston 6, 7, 13, 16, 17, 22, 23rd; Columbia. Little Mountain 23rd; Lugoff 24, 28th; Newberry 22, 23rd; Saluda 20, 21, 22, 23rd; Santuc 3rd; Seivern 9, 14, 15, 19, 22, 24, 28th; Stateburg 7, 8, 23, 25th; Summerville 19, 23, 26th; Trial 7, 8, 11, 23, 24, 25, 26th; Walterboro 19, 23, 24, 25, 26, 27th.

Thunderstorms.—Beaufort 1, 2, 3, 4, 5, 13, 21, 24, 25th; Blackville, Darlington, Georgetown, Santuc 12th; Bowman 13th; Cheraw 2, 3, 12, 20th; Liberty 1, 2, 3, 12, 13th; Seivern 5, 13, 22, 25th; Society Hill 2, 3, 12th; Stateburg 3, 12, 20, 21st; Summerville 3, 4, 13, 21, 24th; Trenton 1st; Trial 3, 4, 21st; Yorkville 2nd.

Summarized, there were 46 thunderstorms reported during September, on 12 dates as follows: 3 on the 1st, 5 on the 2nd, 8 on the 3rd, 3 on the 4th, 2 on the 5th, 9 on the 12th, 5 on the 13th, 2 on the 20th, 4 on the 21st, 1 on the 22nd, 2 on the 24th, 2 on the 25th.

In addition to the above, thunderstorms were noted at Charleston on the 3, 4, 5, 12, 13, 14, 21, 24th; and at Columbia on the 4, 12, 13, 20th.

## THE SUN'S ATTRACTION.

It is generally known by scientists that the sun has a powerful repulsive force, and it would appear from an article of considerable length in *Cosmos* that it has also a no less powerful attractive force. Says the writer, "Flammarion, the French astronomer, recently noted some interesting facts, illustrating that the sun may have an attractive force, but this, however, is of interest to botanists rather than to astronomers or meteorologists. Flammarion made many experiments on this point. Thus, in the gardens of the Juvisy observatory, a tree was once raised to an upright position by the action of the sun alone. It was a chestnut that the wind had overturned against a wall. The sun righted the tree little by little". The writer discussed the subject at length but in the main he fails to agree with Flammarion that the attractive force of the sun was the controlling force that righted the tree.

## REMARKS BY OBSERVERS.

ANDERSON.—Sixty-five per cent of the cotton crop was gathered by October 1st. BATESBURG.—About three-fourths of the cotton crop opened and was picked during the month; much hay was gathered and the weather was very favorable for this work. BEAUFORT.—The mean temperature was 1.4° above normal; the precipitation was 2.74 inches less than normal; the weather was generally favorable for curing hay and picking cotton, but was much too dry for germination of fall sown crops which, in consequence, are a complete failure. BOWMAN.—The month was remarkably dry and hot; cotton opened rapidly and was picked as quickly as possible, and a large portion was marketed as long as the price was above ten cents a pound. CLARKS HILL.—Unusually dry and hot throughout the month. CLEMSON COLLEGE.—Three-fourths of the cotton crop was picked this month. HEATH SPRINGS.—Weather favorable for maturing late crops, and for harvesting all crops; fodder and hay nearly all harvested and some corn gathered; about three-fourths of the cotton crop was picked. LIBERTY.—A very dry month, and the bulk of the cotton crop opened and was gathered; much fodder and hay saved in good condition; no plowing was done as the ground was too dry; fall crops suffered for rain. LITTLE MOUNTAIN.—The month was too dry for any plowing; no oats were sown; streams and wells failed. LUGOFF.—About three-fourths of the cotton crop was gathered; rain was badly needed; haying made rapid progress; the sweet potato crop is probably short. NEWBERRY.—This was the driest September since 1895; cotton opened very fast and picking was pushed; peas and late corn suffered for rain; much hay was gathered in fine condition. SANTUC.—The month was dry and for the most part hot; the winds were mostly from the north, northeast and northwest and were very drying and consequently detrimental to plant growth, and fall crops suffered severely. SOCIETY HILL.—The yield of cotton is probably one-third less than last year; corn and tobacco were also short crops. STATEBURG.—The weather during the month was remarkably fine and well suited for maturing and picking cotton, as well as for haying and for harvesting other ripening crops; rain fell on six days and was heavy near the middle of the month, and very beneficial; by the end of the month about half of the cotton crop was picked and the remainder continues to open rapidly, indicating an unusually early completion of this work. TRENTON.—Precipitation 3.35 inches less than normal for September, and 12.66 less than the average for the first nine months of the year.



CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1905.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                            | Sky.               |                    |                            |                     |                               | Observers.             |
|---------------------------------------|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|------------------------|
|                                       |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. |                        |
| Aiken.                                | Aiken.        | 565             | 21                      | 80.4                               | +6.4                       | 98       | *1    | 63      | 14    | 22                       | 0.55   | -4.19                      | 0.55                  | 0                          | 1                  | 20                 | 10                         | 0                   | e.                            | L. M. Coward.          |
| Allendale.                            | Barnwell.     | 186             | 17                      | 78.4                               | +3.1                       | 96       | 1     | 64      | *10   | 23                       | 0.78   | -3.48                      | 0.78                  | 0                          | 1                  | 16                 | 0                          | 14                  | ne.                           | C. A. Glover.          |
| Anderson.                             | Anderson.     | 764             | 4                       | 76.8                               | +4.9                       | 97       | 20    | 56      | *5    | 34                       | 0.63   | 3.03                       | 0.50                  | 0                          | 3                  | 20                 | 5                          | 5                   | e.                            | H. H. Russell.         |
| Augusta, Ga.                          | Richmond.     | 134             | 34                      | 78.0                               | +3.6                       | 96       | 23    | 63      | 6     | 29                       | 0.53   | -3.40                      | 0.44                  | 0                          | 3                  | 13                 | 15                         | 2                   | ne.                           | Weather Bureau.        |
| Backsdale.                            | Laurens.      | 780             | 4                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | J. T. Garrett.         |
| Batesburg.                            | Lexington.    | 656             | 17                      | 76.8                               | +2.8                       | 98       | 20    | 58      | 7     | 32                       | 0.92   | -3.34                      | 0.53                  | 0                          | 4                  | 15                 | 7                          | 8                   | s.                            | E. J. Hite.            |
| Beaufort.                             | Beaufort.     | 28              | 19                      | 78.6                               | +1.4                       | 93       | *1    | 66      | *10   | 21                       | 2.60   | -2.74                      | 0.76                  | 0                          | 4                  | 14                 | 14                         | 2                   | ne.                           | S. M. Benton.          |
| Bennettsville.                        | Marlboro.     |                 | 4                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | Jno. L. McCall.        |
| Blackville.                           | Barnwell.     | 296             | 17                      | 78.8                               | +3.6                       | 98       | *1    | 60      | *10   | 31                       | 0.21   | -3.77                      | 0.21                  | 0                          | 2                  | 14                 | 16                         | 0                   | sw.                           | G. D. C. Lange.        |
| Blair.                                |               |                 |                         |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | T. S. McMeekin.        |
| Bowman.                               | Orangeburg.   | 160             | 4                       | 76.8                               |                            | 97       | 20    | 57      | 28    | 31                       | 0.69   | -1.76                      | 0.66                  | 0                          | 2                  | 17                 | 10                         | 3                   | sw.                           | B. O. Evans.           |
| Calhoun Falls.                        | Abbeville.    | 508             | 12                      |                                    |                            |          |       |         |       |                          | 1.76   | -3.28                      | 0.94                  | 0                          | 2                  | 26                 | 0                          | 4                   | n.                            | P. J. Pfeiffer.        |
| Camden.                               | Kershaw.      | 222             | 39                      |                                    |                            |          |       |         |       |                          | 2.02   | -1.87                      | 0.75                  | 0                          | 5                  | 14                 | 7                          | 9                   | ne.                           | J. C. Whitaker.        |
| Chappells.                            |               |                 |                         |                                    |                            |          |       |         |       |                          | 0.18   |                            | 0.16                  | 0                          | 2                  | 20                 | 2                          | 8                   | e.                            | W. F. Glenn.           |
| Charleston.                           | Charleston.   | 48              | 36                      | 78.4                               | +2.4                       | 92       | 7     | 67      | 15    | 16                       | 2.16   | -4.43                      | 0.57                  | 0                          | 9                  | 7                  | 18                         | 5                   | e.                            | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 27                      | 74.0                               | +3.9                       | 91       | 1     | 56      | 27    | 28                       | 2.34   | -1.03                      | 2.32                  | 0                          | 2                  | 17                 | 8                          | 5                   | ne.                           | Weather Bureau.        |
| Cheraw (1).                           | Chesterfield. | 144             | 17                      | 74.0                               | +0.4                       | 90       | *19   | 55      | 27    | 26                       | 4.21   | +0.41                      | 1.67                  | 0                          | 7                  | 13                 | 6                          | 11                  | n.                            | W. R. Godfrey.         |
| Cheraw (2).                           |               | 144             | 12                      |                                    |                            |          |       |         |       |                          | 4.32   | +0.30                      | 1.57                  | 0                          | 7                  | 12                 | 10                         | 8                   | ne.                           | Jno. H. Powe.          |
| Clarks Hill.                          | Edgefield.    | 456             | 3                       | 76.9                               |                            | 95       | *1    | 59      | *7    | 31                       | 0.56   |                            | 0.35                  | 0                          | 3                  | 12                 | 12                         | 6                   |                               | Wm. S. Middleton.      |
| Clemson College.                      | Oconee.       | 850             | 14                      | 74.8                               | +1.5                       | 90       | *1    | 56      | 5     | 30                       | 1.66   | -2.27                      | 1.56                  | 0                          | 2                  | 25                 | 5                          | 0                   | ne.                           | Jno. N. Hook.          |
| Columbia.                             | Richland.     | 351             | 18                      | 76.4                               | +1.4                       | 94       | 1     | 61      | 27    | 25                       | 2.57   | -1.55                      | 1.33                  | 0                          | 5                  | 12                 | 14                         | 4                   | se.                           | Central Office.        |
| Conway.                               | Horry.        | 25              | 14                      | 75.8                               |                            | 92       | 20    | 54      | 28    | 27                       | 1.85   | -1.77                      | 0.85                  | 0                          | 5                  | 19                 | 1                          | 10                  | se.                           | McQ. Quattlebaum.      |
| Darlington.                           | Darlington.   | 175             | 10                      | 75.2                               |                            | 96       | 1     | 52      | 28    | 33                       | 8.60   | +5.83                      | 8.00                  | 0                          | 3                  | 16                 | 12                         | 2                   |                               | Robt. E. James.        |
| Dillon.                               | Marion.       | 100             | 1                       | 76.6                               |                            | 98       | 1     | 53      | 28    | 33                       | 2.83   |                            | 0.95                  | 0                          | 6                  |                    |                            |                     |                               | A. E. Rowell.          |
| Due West.                             | Abbeville.    | 740             | 4                       | 75.7                               |                            | 93       | *18   | 58      | *5    | 28                       | T.     |                            | T.                    | 0                          | 0                  | 23                 | 5                          | 2                   | w.                            | Rev. O. Y. Bonner.     |
| Edisto.                               | Bamberg.      | 127             | 12                      |                                    |                            |          |       |         |       |                          | 1.88   | -1.40                      | 1.35                  | 0                          | 2                  | 20                 | 5                          | 5                   | sw.                           | Mrs. M. Thompson.      |
| Edinham.                              | Florence.     | 106             | 13                      |                                    |                            |          |       |         |       |                          | 2.70   | -0.70                      | 2.00                  | 0                          | 2                  | 16                 | 0                          | 14                  | ne.                           | H. B. McCall.          |
| Enoree.                               | Spartanburg.  | 987             | 0                       |                                    |                            |          |       |         |       |                          | 2.60   |                            | 1.00                  | 0                          | 3                  | 19                 | 3                          | 8                   |                               | E. P. Porter.          |
| Florence.                             | Florence.     | 136             | 17                      | 76.4                               | +1.7                       | 98       | 1     | 56      | *10   | 31                       | 3.63   | -0.05                      | 2.40                  | 0                          | 3                  | 12                 | 2                          | 16                  | ne.                           | H. K. Gilbert.         |
| Gaffney.                              | Cherokee.     | 893             | 9                       | 75.8                               |                            | 96       | *1    | 52      | 5     | 36                       | 1.77   | -2.15                      | 0.90                  | 0                          | 5                  | 16                 | 9                          | 5                   | n.                            | B. F. Camp.            |
| Georgetown.                           | Georgetown.   | 12              | 12                      | 76.6                               | +0.8                       | 90       | *1    | 60      | *26   | 18                       | 1.71   | -1.33                      | 0.46                  | 0                          | 5                  | 16                 | 14                         | 0                   | ne.                           | Reid Whitford.         |
| Greenville.                           | Greenville.   | 989             | 13                      | 71.2                               | -0.4                       | 89       | 20    | 54      | 5     | 30                       | 1.97   | -2.10                      | 1.02                  | 0                          | 6                  | 19                 | 2                          | 9                   | nw.                           | Mrs. S. A. Crittenden. |
| Greenwood.                            | Greenwood.    | 671             | 17                      | 75.2                               | +1.7                       | 93       | *1    | 58      | 29    | 25                       | 0.48   | -4.08                      | 0.38                  | 0                          | 3                  | 20                 | 1                          | 9                   | sw.                           | M. M. Calhoun.         |
| Heath Springs.                        | Laurens.      |                 | 4                       | 75.4                               |                            | 94       | 21    | 55      | 10    | 30                       | 2.25   |                            | 0.86                  | 0                          | 9                  | 20                 | 7                          | 3                   | w.                            | J. A. Weaner.          |
| Kingstree (1).                        | Williamsburg. | 54              | 17                      | 78.0                               | +2.7                       | 96       | 20    | 59      | 28    | 25                       | 3.36   | -0.66                      | 1.61                  | 0                          | 4                  | 15                 | 5                          | 10                  | ne.                           | J. A. Scott.           |
| Kingstree (2).                        |               | 54              | 11                      |                                    |                            |          |       |         |       |                          | 3.35   | +0.10                      | 1.65                  | 0                          | 4                  | 22                 | 3                          | 5                   | sw.                           | A. C. Matthews.        |
| Liberty.                              | Pickens.      | 900             | 11                      | 75.2                               | +2.0                       | 93       | 23    | 55      | 5     | 30                       | 1.60   | -4.05                      | 1.05                  | 0                          | 3                  | 20                 | 9                          | 1                   | sw.                           | Jno. T. Boggs.         |
| Little Mountain.                      | Newberry.     | 711             | 12                      | 76.6                               | +0.7                       | 97       | 1     | 58      | 29    | 28                       | 0.58   | -2.92                      | 0.25                  | 0                          | 4                  | 14                 | 16                         | 0                   | sw.                           | John M. Sease, M. D.   |
| Lugoff.                               | Kershaw.      | 168             | 4                       | 75.8                               |                            | 97       | 22    | 55      | 3     | 32                       | 3.15   |                            | 1.65                  | 0                          | 5                  | 14                 | 13                         | 3                   | w.                            | W. J. Burdell, M. D.   |
| Newberry.                             | Newberry.     | 502             | 1                       | 77.2                               | +4.3                       | 98       | 1     | 57      | 6     | 32                       | 0.17   | -3.47                      | 0.12                  | 0                          | 3                  | 15                 | 12                         | 3                   | e.                            | W. G. Peterson.        |
| Pelzer.                               | Anderson.     | 873             | 0                       |                                    |                            |          |       |         |       |                          | 1.57   |                            | 0.54                  | 0                          | 4                  | 21                 | 1                          | 8                   | w.                            | John M. Ward.          |
| Pinopolis.                            | Berkeley.     | 54              | 12                      | 74.0                               | -0.2                       | 88       | 1     | 60      | 28    |                          | 1.99   | -1.69                      | 1.33                  | 0                          | 6                  | 15                 | 12                         | 3                   | e.                            | E. P. Ravenel.         |
| St. Georges.                          | Dorchester.   | 109             | 17                      | 76.8                               | +1.9                       | 94       | 1     | 61      | 28    | 27                       | 1.00   | -4.25                      | 0.60                  | 0                          | 3                  | 22                 | 0                          | 8                   |                               | W. B. Raynor.          |
| St. Matthew.                          | Orangeburg.   | 269             | 17                      | 75.5                               | +0.4                       | 93       | 1     | 60      | 4     | 28                       | 0.93   | -2.66                      | 0.61                  | 0                          | 4                  | 19                 | 0                          | 11                  |                               | J. S. Wainmaker.       |
| St. Stephen.                          | Berkeley.     | 73              | 13                      |                                    |                            |          |       |         |       |                          | 1.00   | -2.48                      | 0.67                  | 0                          | 3                  | 16                 | 3                          | 11                  | s.                            | C. T. Shuler.          |
| Saluda.                               | Saluda.       | 536             | 4                       | 76.4                               |                            | 98       | 1     | 53      | 7     | 35                       | 0.38   |                            | 0.26                  | 0                          | 2                  | 25                 | 4                          | 1                   | e.                            | Alvin Etheridge.       |
| Santuc.                               | Union.        | 512             | 12                      | 75.3                               | +2.1                       | 96       | 20    | 57      | 29    | 36                       | 1.05   | -2.35                      | 0.74                  | 0                          | 3                  | 15                 | 12                         | 3                   | n.                            | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham.      | 71              | 36                      | 78.4                               | +2.6                       | 93       | 1     | 67      | 10    | 20                       | 3.11   | -3.01                      | 1.21                  | 0                          | 8                  | 7                  | 9                          | 14                  | sw.                           | Weather Bureau.        |
| Seivern.                              | Aiken.        | 482             | 4                       | 75.1                               | -1.7                       | 98       | 1     | 49      | 29    | 40                       | 2.31   | -0.70                      | 2.00                  | 0                          | 5                  | 15                 | 8                          | 7                   | sw.                           | Geo. C. Gunter.        |
| Smiths Mills.                         | Williamsburg. | 62              | 10                      |                                    |                            |          |       |         |       |                          | 1.42   | -1.92                      | 0.50                  | 0                          | 6                  | 20                 | 1                          | 9                   | w.                            | H. van Keuren.         |
| Society Hill.                         | Darlington.   | 192             | 14                      | 74.4                               | +1.2                       | 90       | 19    | 58      | 27    | 20                       | 3.85   | -0.57                      | 1.79                  | 0                          | 6                  | 14                 | 13                         | 3                   | ne.                           | J. J. Lucas.           |
| Spartanburg.                          | Spartanburg.  | 875             | 14                      | 75.2                               | +2.6                       | 95       | 1     | 57      | 23    | 36                       | 0.80   | -3.37                      | 0.61                  | 0                          | 3                  | 15                 | 3                          | 12                  |                               | F. P. Robinson.        |
| Stateburg.                            | Sumter.       | 500             | 28                      | 76.4                               | +2.7                       | 93       | *1    | 60      | 27    | 23                       | 2.24   | -0.93                      | 1.38                  | 0                          | 6                  | 12                 | 7                          | 11                  | e.                            | W. W. Anderson, M. D.  |
| Summerville.                          | Dorchester.   | 75              | 8                       | 75.8                               | +0.8                       | 92       | 1     | 60      | 28    | 24                       | 3.66   | +0.52                      | 1.67                  | 0                          | 7                  | 14                 | 11                         | 5                   | ne.                           | Miss E. H. Gadsden.    |
| Sumter.                               | Sumter.       | 169             | 4                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | H. A. Moses.           |
| Trenton.                              | Edgefield.    | 620             | 12                      | 76.2                               | -0.8                       | 97       | 1     | 60      | *15   | 33                       | 0.41   | -3.35                      | 0.27                  | 0                          | 2                  | 12                 | 15                         | 1                   | s.                            | C. A. Long.            |
| Trial.                                | Berkeley.     | 85              | 19                      | 75.8                               | +2.3                       | 97       | 1     | 57      | 28    | 35                       | 1.67   | -2.30                      | 0.63                  | 0                          | 8                  | 10                 | 16                         | 4                   | e.                            | Etsell Gaillard.       |
| Walhalla.                             | Oconee.       | 1061            | 14                      | 74.8                               | +4.4                       | 94       | *1    | 55      | 5     | 34                       | 2.56   | -2.22                      | 2.20                  | 0                          | 2                  | 23                 | 5                          | 2                   | nw.                           | L. E. Isbell.          |
| Walterboro.                           | Colleton.     |                 | 2                       | 77.4                               |                            | 97       | 1     | 61      | 28    | 31                       | 3.43   |                            | 1.60                  | 0                          | 7                  | 17                 | 11                         | 2                   | se.                           | J. A. Westerberg.      |
| Wilmington, N. C.                     | New Hanover.  | 52              | 36                      | 75.1                               | +1.5                       | 92       | 20    | 55      | 27    | 22                       | 2.25   | -4.17                      | 1.32                  | 0                          | 7                  | 8                  | 19                         | 3                   | ne.                           | Weather Bureau.        |
| Winnboro.                             | Fairfield.    | 545             | 16                      | 75.4                               | +2.5                       | 94       | 1     | 60      | *14   | 24                       | 0.90   | -2.93                      | 0.50                  | 0                          | 2                  | 20                 | 10                         | 0                   | sw.                           | John W. Seigler.       |
| Winthrop College.                     | York.         | 690             | 6                       |                                    |                            |          |       |         |       |                          |        |                            |                       |                            |                    |                    |                            |                     |                               | Geo. B. Green.         |
| Yemassee.                             | Beaufort.     | 23              | 10                      | 77.0                               | -0.5                       | 93       | 1     | 61      | 28    | 27                       | 3.89   | +0.87                      | 1.90                  | 0                          | 5                  | 19                 | 1                          | 10                  |                               | J. G. Hutson.          |
| Yorkville.                            | York.         | 680             | 17                      | 76.3                               | +2.7                       | 96       | 23    | 60      | 16    | 32                       | 0.94   | -3.44                      | 0.62                  | 0                          | 4                  | 11                 | 16                         | 3                   | sw.                           | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 76.2                               | +2.0                       | 98       | *1    | 49      | 29    | 40                       | 1.91   | -1.91                      | 8.00                  | 0                          | 4                  | 16                 | 8                          | 6                   | ne.                           |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
§ Exposed not standard. \* On other dates also a indicates 1 day missing, b, 2 days, etc.



### STATIONS.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.



# TOTAL PRECIPITATION FOR SEPTEMBER, 1905.



SCALE OF SHADINGS IN INCHES





## DAILY PRECIPITATION FOR SOUTH CAROLINA, SEPTEMBER, 1905.

| STATIONS.         | Day of Month. |      |     |      |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | Total. |      |  |
|-------------------|---------------|------|-----|------|------|------|-----|------|-----|-----|----|-----|------|------|-----|------|------|-----|-----|-----|----|------|-----|----|----|-----|----|-----|----|-----|----|--------|------|--|
|                   | 1             | 2    | 3   | 4    | 5    | 6    | 7   | 8    | 9   | 10  | 11 | 12  | 13   | 14   | 15  | 16   | 17   | 18  | 19  | 20  | 21 | 22   | 23  | 24 | 25 | 26  | 27 | 28  | 29 | 30  | 31 |        |      |  |
| Aiken             |               |      |     | .55  |      |      |     |      |     |     | T. |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 0.55   |      |  |
| Allendale         |               |      |     |      |      |      |     |      |     |     |    | .78 |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 0.78   |      |  |
| Anderson          |               | .50  |     |      |      |      |     |      |     |     |    | .12 |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 0.63   |      |  |
| Augusta, Ga.      |               |      |     | .06  |      |      |     | T.   |     |     |    | .44 |      |      |     |      |      |     |     |     |    | .03  |     | T. |    |     |    |     | T. | .01 |    | 0.53   |      |  |
| Barksdale         |               |      |     |      |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 0.92   |      |  |
| Batesburg         |               |      |     |      | .20  |      |     |      |     |     |    |     | .53  |      |     |      | T.   |     |     |     |    | .16  | .03 |    |    |     |    |     |    |     |    | 2.60   |      |  |
| Beaufort          |               |      | .01 |      |      | .17  |     | .34  |     | .09 |    |     | .13  | T.   | .20 | .76  |      |     |     |     |    | .58  |     |    |    |     |    | .32 |    |     |    | 0.92   |      |  |
| Bennettsville     |               |      |     |      |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 2.60   |      |  |
| Blackville        |               |      |     |      |      |      |     |      |     |     |    |     | .17  | .04  |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 0.21   |      |  |
| Blairs            |               | .22  |     |      |      |      |     |      | .01 |     |    |     |      |      |     |      |      |     |     |     |    | .01  |     |    |    |     |    |     |    |     |    | 0.21   |      |  |
| Bowman            |               |      |     |      |      | .03  |     |      |     |     |    |     | .66  |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 0.66   |      |  |
| Calhoun Falls     |               | .82  | .94 |      |      |      |     |      |     |     |    |     | .06  |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 1.76   |      |  |
| Camden            |               |      |     | .35  | .56  |      |     |      | .75 |     |    |     |      |      |     |      |      |     |     |     |    | .30  |     |    |    |     |    |     |    |     |    | 2.02   |      |  |
| Chappells         |               | .16  |     |      | .02  |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 0.16   |      |  |
| Charleston        |               |      | T.  | .41  | T.   | T.   | .48 | .07  | .21 |     |    | .02 | T.   | .05  | T.  | .09  | .57  | T.  |     |     |    | .26  | T.  |    |    |     |    |     |    | T.  |    | 2.10   |      |  |
| Charlotte, N. C.  |               | T.   | T.  | T.   |      |      |     |      |     |     |    | T.  |      |      |     | T.   | 2.32 |     | T.  | .02 |    |      |     |    |    |     |    |     |    |     |    | 2.34   |      |  |
| Cheraw(1)         |               |      | .06 | 1.67 | .03  |      |     |      |     |     |    |     | 1.40 | T.   |     |      | .60  | .06 |     |     |    | .39  |     |    |    |     |    |     |    |     |    | 4.21   |      |  |
| Cheraw(2)         |               |      | .14 | 1.51 | .04  |      |     | T.   | T.  |     |    |     | 1.57 | T.   |     |      | .56  | .05 |     |     |    | .45  |     |    |    |     |    |     |    |     |    | 4.32   |      |  |
| Clark's Hill      |               | T.   |     |      | .35  |      |     | .08  |     |     |    |     | .13  |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     | T. |     |    | 0.50   |      |  |
| Clemson College   |               | 1.50 |     |      |      |      |     |      | .02 |     |    |     | .10  |      |     | T.   | T.   |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 1.60   |      |  |
| Columbia          |               |      | .10 | 1.30 |      |      |     |      |     |     |    | .55 | .60  |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 2.57   |      |  |
| Conway            |               | T.   | .25 | T.   | T.   |      |     |      |     |     |    | .85 |      |      |     |      | .50  | .05 |     |     |    | .20  | T.  |    |    |     |    |     |    |     |    | 8.60   |      |  |
| Darlington        |               |      |     |      |      |      |     | 8.00 |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 8.60   |      |  |
| Dillon            |               |      |     | .06  | T.   |      |     |      |     |     |    | .95 | .56  |      |     |      | .07  | .29 |     |     |    | .90  |     |    |    |     |    |     |    |     |    | 2.83   |      |  |
| Due West          |               |      |     |      |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | T.     | 1.88 |  |
| Edisto            |               |      |     |      |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | T.     | 1.88 |  |
| Effingham         |               |      |     |      |      |      |     |      |     |     |    |     | 2.00 |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 2.70   |      |  |
| Enoree            |               | 1.00 |     |      |      |      |     |      |     |     |    |     | .70  |      |     |      |      |     |     |     |    | .90  |     |    |    |     |    |     |    |     |    | 2.60   |      |  |
| Florence          |               |      |     | .08  | T.   |      |     |      |     |     |    |     | 2.40 |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 3.61   |      |  |
| Gaffney           |               | .25  | .90 |      |      |      |     |      |     |     |    |     | .30  |      |     | .12  |      |     |     |     |    | .20  |     |    |    |     |    |     |    |     |    | 1.71   |      |  |
| Georgetown        |               | T.   |     |      |      |      |     | .45  |     |     |    |     | .45  | T.   | T.  | .25  | .46  |     |     |     |    | .10  |     |    |    |     |    |     |    |     |    | 1.71   |      |  |
| Greenville        |               | .60  | .16 |      |      |      |     | .02  |     |     |    |     | .14  | 1.02 |     |      |      |     |     |     |    | T.   | .03 |    |    |     |    |     |    |     |    | 1.99   |      |  |
| Greenwood         |               | .38  |     | .05  |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 0.43   |      |  |
| Heath Springs     |               |      | .62 | .02  |      |      |     | .02  |     |     |    |     | .26  | .86  |     |      | .11  | .26 | .03 |     |    | .07  |     |    |    |     |    |     |    |     |    | 2.25   |      |  |
| Kingstree(1)      |               |      |     | .63  | .71  |      |     |      |     |     |    |     | 1.61 |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 3.30   |      |  |
| Kingstree(2)      |               |      |     | .75  | .70  |      |     |      |     |     |    |     | 1.65 |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    | 3.30   |      |  |
| Liberty           |               | 1.05 |     |      |      |      |     | T.   |     |     |    |     | .20  | .35  |     |      |      |     | T.  |     |    |      |     |    |    |     |    |     |    |     |    | 1.60   |      |  |
| Little Mountain   |               | .05  |     | .25  |      |      |     | .06  |     |     |    |     | .22  |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 0.58 |  |
| Lugoff            |               |      |     |      | 1.65 | 1.00 |     |      | T.  |     |    |     |      |      |     |      | .20  | .05 |     |     |    | .25  |     |    |    |     |    |     |    |     |    | 3.11   |      |  |
| Newberry          |               | .04  |     |      |      |      |     | T.   |     |     |    |     | .12  |      |     |      |      | T.  |     |     |    | .01  |     |    |    |     |    |     |    |     |    |        | 0.17 |  |
| Pelzer            |               | .51  | .05 |      |      |      |     |      |     |     |    |     | .47  |      |     |      |      |     |     |     |    | .54  |     |    |    |     |    |     |    |     |    |        | 1.57 |  |
| Pinopolis         |               | .17  |     |      |      |      |     | .22  |     |     |    |     | .10  | .05  |     |      | .12  |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 1.99 |  |
| St. Georges       |               |      |     | .20  |      |      |     |      |     |     |    |     | .60  | .20  |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 1.00 |  |
| St. Matthew       |               |      |     |      | .61  |      |     | .04  |     |     |    |     | .25  |      |     |      |      |     | .03 |     |    |      |     |    |    |     |    |     |    |     |    |        | 0.90 |  |
| St. Stephen       |               |      |     | .67  |      |      |     |      |     |     |    |     | .13  |      |     |      |      |     |     |     |    | .20  |     |    |    |     |    |     |    |     |    |        | 1.00 |  |
| Saluda            |               | .12  |     |      |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 0.38 |  |
| Santuc            |               | .19  | .12 |      |      |      |     | T.   |     |     |    |     | T.   | .74  |     |      |      | T.  | T.  |     |    | .26  |     |    |    |     |    |     |    |     |    |        | 1.00 |  |
| Savannah, Ga.     |               | T.   |     | .05  | T.   | .14  |     | .16  |     |     |    |     | 1.11 |      | .07 | .36  |      |     |     |     | T. | 1.21 |     |    |    | .01 |    | T.  |    |     |    |        | 3.11 |  |
| Seivern           |               |      |     | .11  |      |      |     |      |     |     |    |     | T.   | 2.00 |     |      |      | .01 |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 2.30 |  |
| Smiths Mills      |               |      |     | .50  | .20  | .10  |     |      |     |     |    |     | .40  |      |     |      | T.   | .10 | .12 |     |    | T.   |     |    |    |     |    |     |    |     |    |        | 1.47 |  |
| Society Hill      |               | .02  | .12 | .01  |      |      |     |      |     |     |    |     | 1.79 |      |     |      |      | .41 |     |     |    | 1.50 |     |    |    |     |    |     |    |     |    |        | 3.85 |  |
| Spartanburg       |               | .15  |     |      |      |      |     |      |     |     |    |     | T.   | .61  |     |      |      |     |     |     |    | .04  |     |    |    |     |    |     |    |     |    |        | 0.80 |  |
| Stateburg         |               |      | T.  | .38  |      |      |     | .23  |     |     |    |     | .13  | 1.38 |     |      |      |     |     |     |    | .06  | .06 |    |    |     |    |     |    |     |    |        | 2.22 |  |
| Summerville       |               |      |     | .60  |      |      |     | .69  |     |     |    |     | .46  | .06  | .01 | .17  | T.   |     |     |     |    | 1.67 |     |    | T. |     | T. |     |    |     |    | 3.66   |      |  |
| Sumter            |               |      |     |      |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 0.41 |  |
| Trenton           |               |      |     | .14  |      |      |     | T.   |     |     |    |     | T.   | .33  |     |      | .27  |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 1.67 |  |
| Trial             |               |      | .43 | .02  | T.   |      |     | .05  |     | .03 |    |     | .30  | .33  |     | T.   | .02  |     |     |     |    | .49  |     |    |    |     |    |     |    |     |    |        | 2.56 |  |
| Walhalla          |               | 2.20 |     |      |      |      |     |      |     |     |    |     | .36  |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 2.56 |  |
| Walterboro        |               |      | .28 |      |      |      |     | .38  |     |     |    |     | T.   | 1.60 | T.  | .05  | .07  |     |     |     |    | 1.00 | .05 |    |    | T.  |    |     |    |     |    |        | 3.43 |  |
| Wilmington, N. C. |               | .25  | .29 | T.   | T.   |      |     |      |     |     |    |     | .34  | .03  |     |      | .59  | .73 |     |     |    | .02  |     |    |    |     |    |     |    |     |    |        | 2.22 |  |
| Winnsboro         |               |      | .50 | .40  |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 0.90 |  |
| Winthrop College  |               |      |     |      |      |      |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        |      |  |
| Yemassee          |               |      |     | .56  | 1.42 | T.   |     |      |     |     |    |     |      |      |     |      |      |     |     |     |    |      |     |    |    |     |    |     |    |     |    |        | 3.80 |  |
| Yorkville         |               | .13  | .08 |      |      |      |     |      |     |     |    |     | T.   | .62  |     | 1.32 | T.   | .20 |     |     |    | .39  |     |    |    |     |    |     |    |     |    |        | 0.94 |  |

T. indicates trace, less than .01 inch.



557.00  
U.S.O.

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR OCTOBER, 1905.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



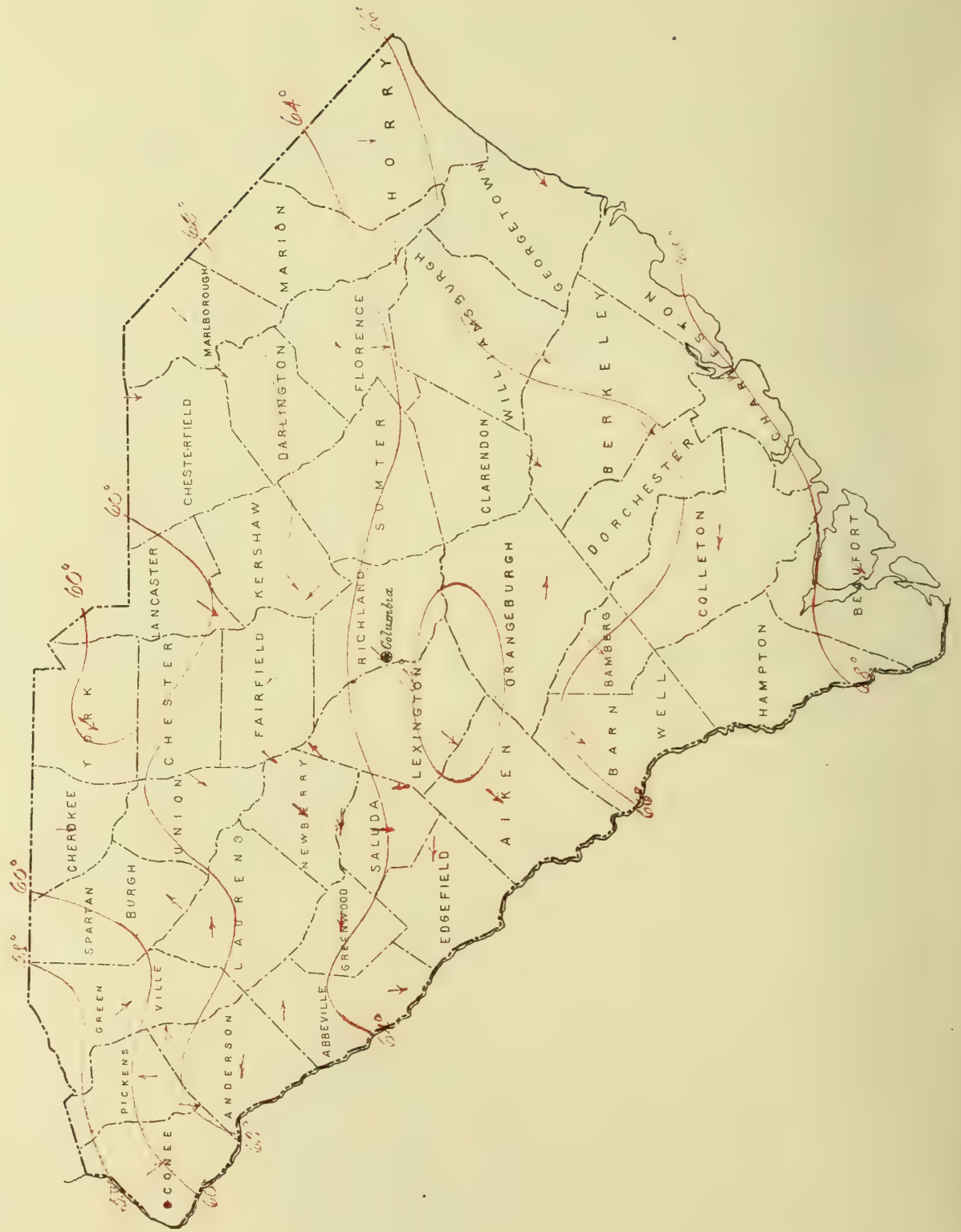
RALEIGH, N. C.

WEATHER BUREAU OFFICE

NOVEMBER 25, 1905.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR OCTOBER, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., OCTOBER, 1905. No. 10.

## PROGRESS OF FARM WORK.

Seasonable farm work advanced rapidly during October, owing to the generally favorable weather that prevailed during the greater portion of the month.

The temperature averaged slightly higher than usual, with two cool periods during which light to killing frosts occurred over nearly the whole State, except on the immediate coast. The first light frosts occurred generally on the 12th and 13th, but even the most tender vegetation was scarcely injured by them; the second period, on the 22nd and 23rd, was somewhat cooler, over the western counties the frosts were killing along streams and in low places, or other susceptible localities, but generally only the most tender vegetation was damaged.

There were light rains on the 2nd and 3rd that scarcely interfered with farm work, while heavier and more general rains on the 10th and 11th interrupted harvesting operations for two days: there was a cloudy and rainy period from the 25th to the 29th over the entire State. The State average precipitation was only 63 per cent of the normal October amount, and was scarcely enough to render plowing and seeding practicable on heavy soils.

That portion of the cotton crop that did not open, and was not picked during September, opened favorably and practically all of the upland crop was gathered during the month, except very late cotton. The small top crop, which formed barely one-tenth of the whole, developed favorably up to the 22nd and 23rd when the frosts checked further growth or development. On light soils, and over the eastern and central parts of the State generally, picking was finished by the close of the month. The sea-island cotton was later in opening and less than three-fourths was picked. The weather was generally favorable for securing the lint in prime condition, free from weather stain or other deteriorating influences.

The weather was also favorable for harvesting corn, nearly all of which was gathered in good condition, with the grain well filled and thoroughly dry. In a few localities pea-vine hay was damaged, but most of a large crop of this forage was saved and stacked thoroughly cured.

There was insufficient moisture for the best development of sweet potatoes and turnips, and, from the same cause, sorghum and sugar-cane gave small yields of syrup.

The month was unfavorable, owing to the small rainfall until near its close, for fall truck and gardens, which, in the Beaufort district, are almost failures, but which are somewhat better in the Charleston district owing to more favorable weather in September.

Plowing for fall oats was generally delayed until after the middle of the month when it became active and a considerable acreage was sown which germinated favorably during the rainy period near the close of the month.

On the whole, the October weather conditions were about normal, and quite favorable for the progress of farm work. The yields of the staple crops approximated the average of former years.

## OCTOBER WEATHER.

The variation in the mean temperature for the last 12 years was between 61.3° and 67.6°, or a range of 5.3°. The maximum temperatures are steadier during this month than the minimum, the mean of the former having had a range of only 3.8°, while the latter had a range of 9.8°. The warmest October was in 1900 when both the day and the night temperatures were the highest of record. The coolest October occurred in 1895, due to about average day temperatures and to abnormally cool nights. The absolute lowest temperature since 1894, was 25° in 1903, although minimum temperatures below freezing, in some portion of the State, occurred in every year except 1894, 1897, 1899, and 1900.

The State average precipitation is about 3.00 inches for October, and the range has been between 0.89, in 1901, and 5.00, in 1899. The region of heaviest precipitation is usually along the coast, although not invariably so. In 1901 there was no measureable amount at Georgetown, and in 1904 there was none at Walhalla. There is usually enough rainfall to put the ground into condition for tillage, and for the quick germination of fall sown oats and rye, but streams are usually at their lowest stage during this month. The average number of clear days ranges between 13 and 23, of partly cloudy ones between 5 and 8, and of cloudy ones between 3 and 11. Clear skies are the prevailing condition, while cloudy and rainy periods are few and of short duration. The prevailing winds are from the northeast, except in 1903 when they were from the north. The usual tabular data is given herewith.

## Temperature, Rainy Days and Wind.

| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|
| 1894 .. | 64.2       | 74.5      | 54.6      | 98            | 33           | 5           | ne.               |
| 1895 .. | 61.3       | 74.2      | 48.8      | 95            | 28           | 3           | ne.               |
| 1896 .. | 61.3       | 74.1      | 51.0      | 91            | 28           | 4           | ne.               |
| 1897 .. | 65.8       | 76.2      | 55.4      | 96            | 35           | 5           | ne.               |
| 1898 .. | 62.9       | 72.4      | 52.6      | 90            | 28           | 9           | ne.               |
| 1899 .. | 64.2       | 74.0      | 54.3      | 91            | 34           | 6           | ne.               |
| 1900 .. | 67.6       | 76.6      | 58.6      | 95            | 33           | 9           | ne.               |
| 1901 .. | 62.4       | 74.9      | 50.0      | 92            | 29           | 3           | ne.               |
| 1902 .. | 63.2       | 74.3      | 52.0      | 95            | 30           | 7           | ne.               |
| 1903 .. | 62.0       | 74.3      | 49.6      | 93            | 25           | 5           | n.                |
| 1904 .. | 62.4       | 74.8      | 49.9      | 98            | 26           | 3           | ne.               |
| 1905 .. | 64.2       | 75.8      | 52.5      | 93            | 29           | 6           | ne.               |

## Precipitation.

| Year.     | State Average. | Greatest Monthly. | Place.         | Least Monthly. | Place.         |
|-----------|----------------|-------------------|----------------|----------------|----------------|
| 1894..... | 4.95           | 8.34              | Santuc.        | 0.47           | Branchville.   |
| 1895..... | 1.15           | 2.71              | Society Hill.  | 0.09           | Allendale.     |
| 1896..... | 1.41           | 2.75              | Spartanburg.   | 0.38           | Allendale.     |
| 1897..... | 3.23           | 7.04              | Charleston.    | 1.20           | Effingham.     |
| 1898..... | 3.82           | 7.81              | Gillisonville. | 1.58           | Society Hill.  |
| 1899..... | 5.00           | 9.63              | Blackville.    | 1.97           | Gaffney.       |
| 1900..... | 3.65           | 8.44              | Smiths Mills.  | 1.79           | Florence.      |
| 1901..... | 0.89           | 2.86              | Trenton.       | Trace          | Georgetown.    |
| 1902..... | 4.40           | 7.34              | Batesburg.     | 2.24           | Anderson.      |
| 1903..... | 2.63           | 4.68              | Darlington.    | 0.86           | Calhoun Falls. |
| 1904..... | 1.10           | 4.75              | Charleston.    | 0.00           | Walhalla.      |
| 1905..... | 1.97           | 5.20              | Liberty.       | 0.60           | St. George.    |



## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for October, 1905, was 64.2° which is 0.7° above normal. The highest local mean was 69.2° at Beaufort, the lowest was 58.8° at Greenville. The monthly extremes were a maximum of 93° at Blackville on the 2nd, and a minimum of 29° at Seivern on the 22nd, making the State range 64°. The greatest local monthly range was 62° at Saluda and Seivern, the least was 35° at Charleston. The mean of the daily maximum temperatures was 75.8°, and of the daily minimum temperatures was 52.5°, making the average daily range 23.3°.

## Frosts.

Frosts, first light.—Aiken, Beaufort, Florence, Santuc 13th; Anderson, Barksdale, Batesburg, Bennettsville, Blackville, Bowman, Cheraw, Columbia, Gaffney, Greenville, Little Mountain, Lugoff, Newberry, Seivern, Society Hill, Spartanburg, Summerville, Winthrop College, Yorkville 12th; Liberty, Saluda 11th; Heath Springs, Kingstree, Waltherboro 22nd; Walhalla 23rd.

Frosts, first killing.—Batesburg, Cheraw, Little Mountain, Newberry, Saluda, Seivern 22nd; Due West, Gaffney, Heath Springs, Lugoff 23rd.

## Ice.

Thin Ice.—Blackville 23rd; Society Hill 22nd, 23rd.

## Precipitation, in Inches.

The precipitation averaged 1.97 inches which is 1.16 below normal. The greatest local monthly amount was 5.20 at Liberty, the least was 0.60 at Saint George. The greatest 24-hour fall was 2.50 inches at Liberty on the 3rd. The average number of days with 0.01, or more, precipitation was 6, ranging from 2 at Allendale, Edisto and Kingstree to 9 at Beaufort and Society Hill.

## Weather.

The average number of clear days was 15, of partly cloudy ones 6, and of cloudy ones 10.

## Winds.

The prevailing direction of the wind was from the northeast at 23 stations, from the north at 10, from the east at 6, from the west at 4, from the southeast and northwest at 3 each, from the southwest at 2, and from the south at 1 station. High Winds.—Bowman, Liberty 11th; Charleston 7th.

## MISCELLANEOUS PHENOMENA (with dates).

Abnormally High Tides.—Beaufort 28, 29, 30, 31st.

Solar Halos.—Charleston 9, 25th.

Lunar Halos.—Beaufort, Charleston 6, 9th; Blackville 7th; Little Mountain, Saluda 9th.

Thunderstorms.—Beaufort 3rd; Bowman 1st; Georgetown 11th; Summerville 3, 4, 26th. Summarized, there were 6 thunderstorms on 5 dates as follows: 1 on the 1st, 2 on the 3rd, and 1 each on the 4th, 11th, and 26th.

Fogs, Dense.—Barksdale 17th; Beaufort 17, 18th; Bennettsville 15, 16, 17, 18, 19th; Blackville, Trial 17, 18, 19th; Bowman 16, 17, 18, 19, 20th; Charleston 16, 17th; Clarks Hill, Newberry, Saluda 18th; Columbia, Little Mountain 18, 19th; Dillon, Lugoff 16, 17, 18th; Georgetown 19th; Santuc 4, 17, 18, 19th; Seivern 2, 3, 5, 18, 19, 26th; Society Hill 16, 17, 18, 19th; Waltherboro 3, 16, 17, 18, 19th; Yorkville 17, 18, 26th.

## PENALTY FOR COUNTERFEITING FORECASTS.

Any person who shall knowingly issue or publish an counterfeit weather forecasts or warnings of weather conditions, falsely representing such forecasts or warnings to have been issued or published by the Weather Bureau, or other branch of the government service, or shall molest or interfere with any weather or storm flag or weather map or bulletin displayed or issued by the United States Weather Bureau, shall be deemed guilty of a misdemeanor, and, on conviction thereof, for each offense, be fined in a sum not exceeding five hundred dollars, or be imprisoned not to exceed ninety days, or be both fined and imprisoned, in the discretion of the court. (See Act of Congress approved March 3, 1905.)

## REMARKS BY OBSERVERS.

BARKSDALE.—The month closed with fine weather. Cotton picking was practically finished during the month; some oats and wheat were sown. BATESBURG.—All cotton opened and most of it was picked during the month. The light frost on the 12th did very little damage, and the heavy frost on the 23rd killed vegetation on lowlands only. BEAUFORT.—Mean temperature for October was 1.5° above normal; the precipitation was 1.52 below normal. The deficiency since August 1st is 8.65 inches. Cotton and hay harvest nearly finished. A fair crop of corn was gathered. Sweet potatoes and sugar cane gave small yields. Turnips and fall gardens are complete failures except in a few localities. BENNETTSVILLE.—Cotton gathering was about finished during the month; and practically all corn, peas and potatoes were gathered. GREENVILLE.—The first light frost occurred on the 12th, with several frosts on later dates but none severe enough to injure the most tender vegetation. HEATH SPRINGS.—Nearly all crops were harvested in good condition, and the yields were about normal. Some oats were sown. LIBERTY.—The weather was favorable for saving cotton, but much pea-vine hay was damaged. Cotton was practically all picked. Wheat sowing was in progress at close of month. Killing frost was not general. LITTLE MOUNTAIN.—The ground was too dry for doing any plowing, and no oats were sown, except on low, sandy lands. NEWBERRY.—The frosts on the 22nd and 23rd were severe enough to kill sweet potato vines and cotton on low places, but they were not general killing frosts. SALUDA.—The first robins arrived on the 22nd, and many others on the 28th. SANTUC.—The month was generally dry and cool, with occasionally very light rains. Vegetation ripened rapidly, and forest trees shedded their leaves freely. Killing frosts occurred along streams on the 22nd and 23rd, but the frosts were light on high lands. SOCIETY HILL.—Sweet potatoes were nipped on the 22nd and 23rd, while other vegetation was unhurt. Oats and rye planting in progress. SUMMERVILLE.—Frosts were reported in the vicinity on the 12th and 22nd but minimum thermometer only 43° and 44°, respectively, on those dates. There were frosts on the 13th and 23rd. Fog on the 19th. On the 11th there was a slight earthquake tremor at 1:45 p. m., and another on the 16th at 2:10 p. m. TRENTON.—Precipitation 2.03 inches less than normal, and 14.69 less than the average for the first ten months of the year. Ninety-five per cent of the cotton crop was gathered. Some oats were sown, but rain is needed to finish seeding. YORKVILLE.—Some light frosts, but no killing ones in this vicinity.



## CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER, 1905.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                             |                    | Sky.               |                            |                     |       | Prevailing direction of wind. | Observers.        |
|---------------------------------------|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|---------------------|-------|-------------------------------|-------------------|
|                                       |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, (unmelted.) | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. |       |                               |                   |
| Aiken.                                | Aiken.        | 565             | 21                      | 56.9                               | +6.0                       | 88       | *1    | 42      | 11    | 34                       | 1.70   | -1.39                      | 0.90                  | 0                           | 3                  | 21                 | 6                          | 4                   | ne.   | L. M. Coward.                 |                   |
| Allendale.                            | Barnwell.     | 186             | 17                      | 66.6                               | +2.4                       | 88       | *2    | 41      | *13   | 33                       | 1.28   | -1.22                      | 0.90                  | 0                           | 2                  | 16                 | 0                          | 18                  | ..... | C. A. Glover.                 |                   |
| Anderson.                             | Anderson.     | 764             | 4                       | 63.4                               | +3.0                       | 90       | *1    | 36      | 23    | 35                       | 2.28   | 0.66                       | 0.74                  | 0                           | 6                  | 16                 | 4                          | 11                  | e.    | H. H. Russell.                |                   |
| Augusta, Ga.                          | Richmond.     | 131             | 34                      | 65.6                               | +1.0                       | 89       | 2     | 39      | 24    | 36                       | 1.00   | 1.48                       | 0.39                  | 0                           | 5                  | 11                 | 13                         | 7                   | ne.   | Weather Bureau.               |                   |
| Barksdale.                            | Laurens.      | 780             | 4                       | 59.7                               | .....                      | 84       | *16   | 37      | *13   | 39                       | 1.52   | .....                      | 1.10                  | 0                           | 4                  | 17                 | 9                          | 2                   | w.    | J. T. Garrett.                |                   |
| Batesburg.                            | Lexington.    | 656             | 17                      | 64.2                               | +1.1                       | 91       | 2     | 39      | 22    | 33                       | 2.31   | -0.97                      | 0.98                  | 0                           | 5                  | 13                 | 6                          | 12                  | s.    | E. J. Hite.                   |                   |
| Beaufort.                             | Beaufort.     | 28              | 19                      | 69.2                               | +1.5                       | 89       | 2     | 42      | *22   | 31                       | 2.12   | -1.52                      | 1.37                  | 0                           | 9                  | 15                 | 8                          | 8                   | ne.   | S. M. Benton.                 |                   |
| Bennettsville.                        | Marlboro.     | 28              | 4                       | 61.2                               | .....                      | 90       | 5     | 34      | *23   | 39                       | 1.57   | .....                      | 1.05                  | 0                           | 5                  | 14                 | 5                          | 5                   | ne.   | C. S. McCall.                 |                   |
| Blackville.                           | Barnwell.     | 296             | 17                      | 66.3                               | -2.1                       | 93       | 2     | 36      | 22    | 42                       | 1.33   | -1.89                      | 0.92                  | 0                           | 6                  | 17                 | 13                         | 1                   | ne.   | G. D. C. Lange.               |                   |
| Blairs.                               | Orangeburg.   | 160             | 4                       | 64.9                               | .....                      | 90       | 1     | 33      | 28    | 42                       | 2.22   | .....                      | 0.40                  | 0                           | 6                  | 12                 | 10                         | 9                   | ne.   | T. S. McMeekin.               |                   |
| Bowman.                               | Abbeville.    | 508             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 0.90                       | 0                     | 0                           | 7                  | 19                 | 7                          | 5                   | w.    | B. O. Evans.                  |                   |
| Calhoun Falls.                        | Kershaw.      | 222             | 39                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 1.53                       | -2.28                 | 0.89                        | 0                  | 3                  | 24                         | 0                   | 7     | n.                            | P. J. Pfeiffer.   |
| Camden.                               | .....         | .....           | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 1.60                       | -1.08                 | 0.55                        | 0                  | 6                  | 16                         | 6                   | 9     | ne.                           | J. C. Whitaker.   |
| Chappells.                            | .....         | .....           | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 1.28                       | 0.78                  | 0                           | 3                  | 13                 | 3                          | 15                  | e.    | W. F. Glenn.                  |                   |
| Charleston.                           | Charleston.   | 48              | 36                      | 68.0                               | +1.3                       | 84       | 3     | 40      | 23    | 22                       | 2.63   | -1.55                      | 2.09                  | 0                           | 5                  | 8                  | 13                         | 10                  | n.    | Weather Bureau.               |                   |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 27                      | 60.8                               | +0.5                       | 86       | 1     | 38      | 22    | 30                       | 0.70   | -2.97                      | 0.25                  | 0                           | 7                  | 12                 | 9                          | 10                  | ne.   | Weather Bureau.               |                   |
| Cheraw (1).                           | Chesterfield. | 144             | 17                      | 61.6                               | +0.4                       | 86       | *1    | 35      | *23   | 36                       | 1.65   | -1.10                      | 0.70                  | 0                           | 8                  | 8                  | 9                          | 14                  | n.    | W. R. Godfrey.                |                   |
| Cheraw (2).                           | .....         | .....           | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 1.73                       | -1.32                 | 0.64                        | 0                  | 8                  | 13                         | 6                   | 12    | n.                            | Jno. H. Powe.     |
| Clarks Hill.                          | Edgefield.    | 456             | 3                       | 64.8                               | .....                      | 92       | 2     | 37      | 24    | 38                       | 1.73   | .....                      | 0.82                  | 0                           | 4                  | 6                  | 14                         | 11                  | ..... | Wm. S. Middleton.             |                   |
| Clemson College.                      | Oconee.       | 850             | 14                      | 63.2                               | +0.1                       | 85       | 3     | 33      | 23    | 32                       | 3.51   | +0.41                      | 1.77                  | 0                           | 3                  | 18                 | 6                          | 7                   | n.    | Jno. N. Hook.                 |                   |
| Columbia.                             | Richland.     | 351             | 18                      | 64.2                               | +0.6                       | 89       | 1     | 40      | 23    | 34                       | 1.43   | -0.96                      | 0.73                  | 0                           | 7                  | 10                 | 13                         | 8                   | ne.   | Central Office.               |                   |
| Conway.                               | Horry.        | 25              | 14                      | 64.6                               | .....                      | 86       | 20    | 35      | 23    | 41                       | 3.20   | +0.61                      | 0.85                  | 0                           | 7                  | 21                 | 0                          | 10                  | n.    | Mrs. M. G. Quattlebaum.       |                   |
| Darlington.                           | Darlington.   | 175             | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | ..... | Robt. E. James.               |                   |
| Dillon.                               | Marion.       | 100             | 1                       | 63.6                               | .....                      | 90       | *1    | 32      | *22   | 42                       | 2.75   | .....                      | 1.18                  | 0                           | 8                  | .....              | .....                      | .....               | ..... | A. E. Rowell.                 |                   |
| Due West.                             | Abbeville.    | 740             | 4                       | 64.0                               | .....                      | 87       | 2     | 40      | 23    | 26                       | 1.66   | .....                      | 0.63                  | 0                           | 5                  | 16                 | 4                          | 11                  | n.    | Rev. O. Y. Bonner.            |                   |
| Edisto.                               | Bamberg.      | 127             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 1.20                       | -1.79                 | 0.80                        | 0                  | 2                  | 16                         | 6                   | 9     | ne.                           | Mrs. M. Thompson. |
| Ellingham.                            | Florence.     | 106             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 2.70                       | +0.03                 | 0.90                        | 0                  | 5                  | 16                         | 0                   | 15    | n.                            | H. B. McCall.     |
| Enoree.                               | Spartanburg.  | 987             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 1.35                       | 0.60                  | 0                           | 4                  | 19                 | 0                          | 12                  | sw.   | E. P. Porter.                 |                   |
| Florence.                             | Florence.     | 136             | 17                      | 63.8                               | +0.6                       | 90       | 2     | 34      | 22    | 37                       | 3.28   | +0.37                      | 0.90                  | 0                           | 8                  | 13                 | 1                          | 17                  | ne.   | H. K. Gilbert.                |                   |
| Gaffney.                              | Cherokee.     | 893             | 9                       | 62.6                               | .....                      | 92       | 1     | 32      | 23    | 42                       | 1.32   | -1.62                      | 0.50                  | 0                           | 6                  | 16                 | 9                          | 6                   | n.    | B. F. Camp.                   |                   |
| Georgetown.                           | Georgetown.   | 12              | 12                      | 67.0                               | +1.8                       | 87       | 26    | 44      | *22   | 33                       | 3.05   | -0.24                      | 0.60                  | 0                           | 7                  | .....              | .....                      | .....               | ..... | Reid Whitford.                |                   |
| Greenville.                           | Greenville.   | 989             | 13                      | 58.8                               | -2.1                       | 83       | 2     | 34      | *22   | 33                       | 3.32   | +0.55                      | 1.90                  | 0                           | 5                  | 14                 | 2                          | 15                  | nw.   | Mrs. S. A. Crittenden.        |                   |
| Greenwood.                            | Greenwood.    | 671             | 17                      | 62.3                               | 0.0                        | 87       | *2    | 36      | 22    | 35                       | 1.43   | -1.35                      | 0.90                  | 0                           | 3                  | 19                 | 1                          | 11                  | e.    | M. M. Calhoun.                |                   |
| Heath Springs.                        | Laurens.      | .....           | 4                       | 59.6                               | .....                      | 90       | 2     | 33      | 22    | 32                       | 1.49   | .....                      | 0.40                  | 0                           | 7                  | 18                 | 5                          | 8                   | ne.   | J. A. Weaver.                 |                   |
| Kingstree (1).                        | Williamsburg. | 54              | 17                      | 67.0                               | +2.2                       | 90       | 2     | 42      | 23    | 33                       | 1.48   | -0.80                      | 0.99                  | 0                           | 7                  | 15                 | 2                          | 14                  | ne.   | J. A. Scott.                  |                   |
| Kingstree (2).                        | .....         | 54              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | -1.26                      | 1.00                  | 0                           | 2                  | 17                 | 5                          | 9                   | nw.   | A. O. Matthews.               |                   |
| Liberty.                              | Pickens.      | 900             | 11                      | 61.2                               | +1.2                       | 86       | *1    | 33      | *22   | 32                       | 5.20   | +1.54                      | 2.50                  | 0                           | 5                  | 19                 | 8                          | 4                   | se.   | Jno. T. Boggs.                |                   |
| Little Mountain.                      | Newberry.     | 711             | 12                      | 63.3                               | -1.7                       | 89       | 2     | 35      | 22    | 34                       | 1.14   | -2.20                      | 0.32                  | 0                           | 6                  | 11                 | 14                         | 6                   | sw.   | John M. Sease, M. D.          |                   |
| Lugoff.                               | Kershaw.      | 168             | 4                       | 62.2                               | .....                      | 90       | 2     | 33      | 22    | 40                       | 0.94   | 0.27                       | 0                     | 0                           | 6                  | 13                 | 5                          | 13                  | se.   | W. J. Burdell, M. D.          |                   |
| Newberry.                             | Newberry.     | 502             | 1                       | 63.1                               | +0.8                       | 91       | 2     | 34      | 23    | 39                       | 1.72   | -1.71                      | 0.72                  | 0                           | 6                  | 9                  | 13                         | 9                   | ne.   | W. G. Peterson.               |                   |
| Pelzer.                               | Anderson.     | 873             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 0.82                       | 0                     | 0                           | 5                  | 16                 | 1                          | 14                  | w.    | John M. Ward.                 |                   |
| Pinopolis.                            | Berkeley.     | 54              | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | ..... | E. P. Ravenel.                |                   |
| St. Georges.                          | Dorchester.   | 109             | 17                      | 65.0                               | +0.9                       | 87       | *1    | 37      | *23   | 40                       | 0.60   | -1.81                      | 0.25                  | 0                           | 3                  | 22                 | 0                          | 9                   | ..... | W. B. Raysor.                 |                   |
| St. Matthew.                          | Orangeburg.   | 269             | 17                      | 63.9                               | -0.6                       | 87       | *1    | 40      | 24    | 33                       | 2.35   | -0.06                      | 0.90                  | 0                           | 6                  | 15                 | 0                          | 16                  | ..... | J. S. Warnamaker.             |                   |
| St. Stephen.                          | Berkeley.     | 73              | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 1.26                       | -1.59                 | 0.80                        | 0                  | 5                  | 14                         | 8                   | 9     | ne.                           | C. T. Shuler.     |
| Saluda.                               | Saluda.       | 536             | 4                       | 63.6                               | .....                      | 92       | 2     | 30      | *22   | 42                       | 1.25   | .....                      | 0.58                  | 0                           | 7                  | 21                 | 2                          | 8                   | n.    | Alvin Etheridge.              |                   |
| Santuc.                               | Union.        | 512             | 12                      | 62.6                               | +0.9                       | 90       | 2     | 34      | *22   | 39                       | 0.96   | -2.70                      | 0.39                  | 0                           | 5                  | 14                 | 11                         | 6                   | ne.   | E. W. Jeter.                  |                   |
| Savannah, Ga.                         | Chatham.      | 71              | 36                      | 68.0                               | +1.6                       | 87       | 20    | 46      | 22    | 24                       | 2.88   | -0.71                      | 1.20                  | 0                           | 7                  | 7                  | 10                         | 14                  | n.    | Weather Bureau.               |                   |
| Seivern.                              | Aiken.        | 482             | 4                       | 62.7                               | -1.5                       | 91       | *1    | 29      | 22    | 48                       | 1.15   | -2.79                      | 0.45                  | 0                           | 5                  | 7                  | 13                         | 11                  | ne.   | Geo. C. Gunter.               |                   |
| Smiths Mills.                         | Williamsburg. | 62              | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | 1.15                       | -1.01                 | 1.80                        | 0                  | 5                  | 17                         | 0                   | 14    | e.                            | H. van Keuren.    |
| Society Hill.                         | Darlington.   | 192             | 14                      | 61.0                               | -0.8                       | 83       | *1    | 36      | 23    | 36                       | 2.91   | -0.65                      | 2.12                  | 0                           | 9                  | 17                 | 4                          | 10                  | ne.   | J. J. Lucas.                  |                   |
| Spartanburg.                          | Spartanburg.  | 875             | 14                      | 61.2                               | +0.2                       | 88       | 2     | 36      | *21   | 33                       | 2.10   | -0.98                      | 0.92                  | 0                           | 3                  | 13                 | 0                          | 18                  | ..... | F. P. Robinson.               |                   |
| Stateburg.                            | Sumter.       | 500             | 28                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | ..... | W. W. Anderson, M. D.         |                   |
| Summerville.                          | Dorchester.   | 75              | 8                       | 65.8                               | -0.2                       | 85       | 1     | 39      | *13   | 33                       | 2.16   | -3.81                      | 1.08                  | 0                           | 8                  | 12                 | 11                         | 8                   | ne.   | Miss E. H. Gadsden.           |                   |
| Sumter.                               | Sumter.       | 169             | 4                       | 67.6                               | +1.2                       | 93       | 2     | 33      | 23    | 44                       | 1.37   | -2.49                      | 0.72                  | 0                           | 4                  | .....              | .....                      | .....               | ..... | H. A. Moses.                  |                   |
| +Trenton.                             | Edgefield.    | 620             | 12                      | 64.8                               | +1.2                       | 88       | 2     | 40      | 21    | 30                       | 1.71   | -2.03                      | 0.92                  | 0                           | 4                  | 9                  | 17                         | 5                   | e.    | C. A. Long.                   |                   |
| Trial.                                | Berkeley.     | 85              | 19                      | 64.2                               | +1.1                       | 90       | 2     | 33      | *13   | 43                       | 1.44   | -1.80                      | 0.44                  | 0                           | 6                  | 12                 | 6                          | 13                  | ne.   | Etsell Gaillard.              |                   |
| Walhalla.                             | Oconee.       | 1061            | 14                      | 60.4                               | +0.8                       | 86       | 2     | 33      | 21    | 31                       | 4.95   | +1.55                      | 2.10                  | 0                           | 6                  | 16                 | 9                          | 6                   | nw.   | L. E. Isbell.                 |                   |
| Walterboro.                           | Colleton.     | .....           | 2                       | 66.8                               | .....                      | 89       | *23   | 36      | 23    | 39                       | 1.86   | .....                      | 0.88                  | 0                           | 6                  | 17                 | 9                          | 5                   | e.    | J. A. Westerberg.             |                   |
| Wilmington, N. C.                     | New Hanover.  | 52              | 36                      | 64.3                               | +0.8                       | 86       | 2     | 40      | 23    | 77                       | 3.80   | -0.04                      | 1.60                  | 0                           | 10                 | 11                 | 14                         | 6                   | n.    | Weather Bureau.               |                   |
| Winnsboro.                            | Fairfield.    | 545             | 16                      | 63.6                               | +1.4                       | 85       | 2     | 41      | 22    | 28                       | 1.16   | -1.42                      | 0.40                  | 0                           | 5                  | 17                 | 8                          | 6                   | se.   | John W. Seigler.              |                   |
| Winthrop College.                     | York.         | 690             | 6                       | 59.0                               | -0.5                       | 85       | 19    | 35      | 22    | 37                       | .....  | .....                      | 2.06                  | 0                           | 8                  | 13                 | 3                          | 15                  | ..... | E. R. Rivers.                 |                   |
| Yemassee.                             | Beaufort.     | 23              | 10                      | 65.4                               | +1.8                       | 89       | 1     | 35      | 23    | 40                       | 2.80   | +0.08                      | 0.27                  | 0                           | 5                  | 10                 | 11                         | 10                  | ne.   | J. G. Hutson.                 |                   |
| Yorkville.                            | York.         | 680             | 17                      | 63.8                               | .....                      | 90       | 2     | 38      | 22    | 31                       | 0.98   | -2.80                      | 0.27                  | 0                           | 5                  | 10                 | 11                         | 10                  | ne.   | J. R. Schorb.                 |                   |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 64.2                               | +0.7                       | 93       | 2     | 29      | 22    | 48                       | 1.97   | -1.16                      | 2.50                  | 0                           | 6                  | 15                 | 6                          | 10                  | ne.   | .....                         |                   |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also † indicates 1 day missing, b, 2 days, etc.

‡ Apparently too high, probably due to defective minimum thermometer.

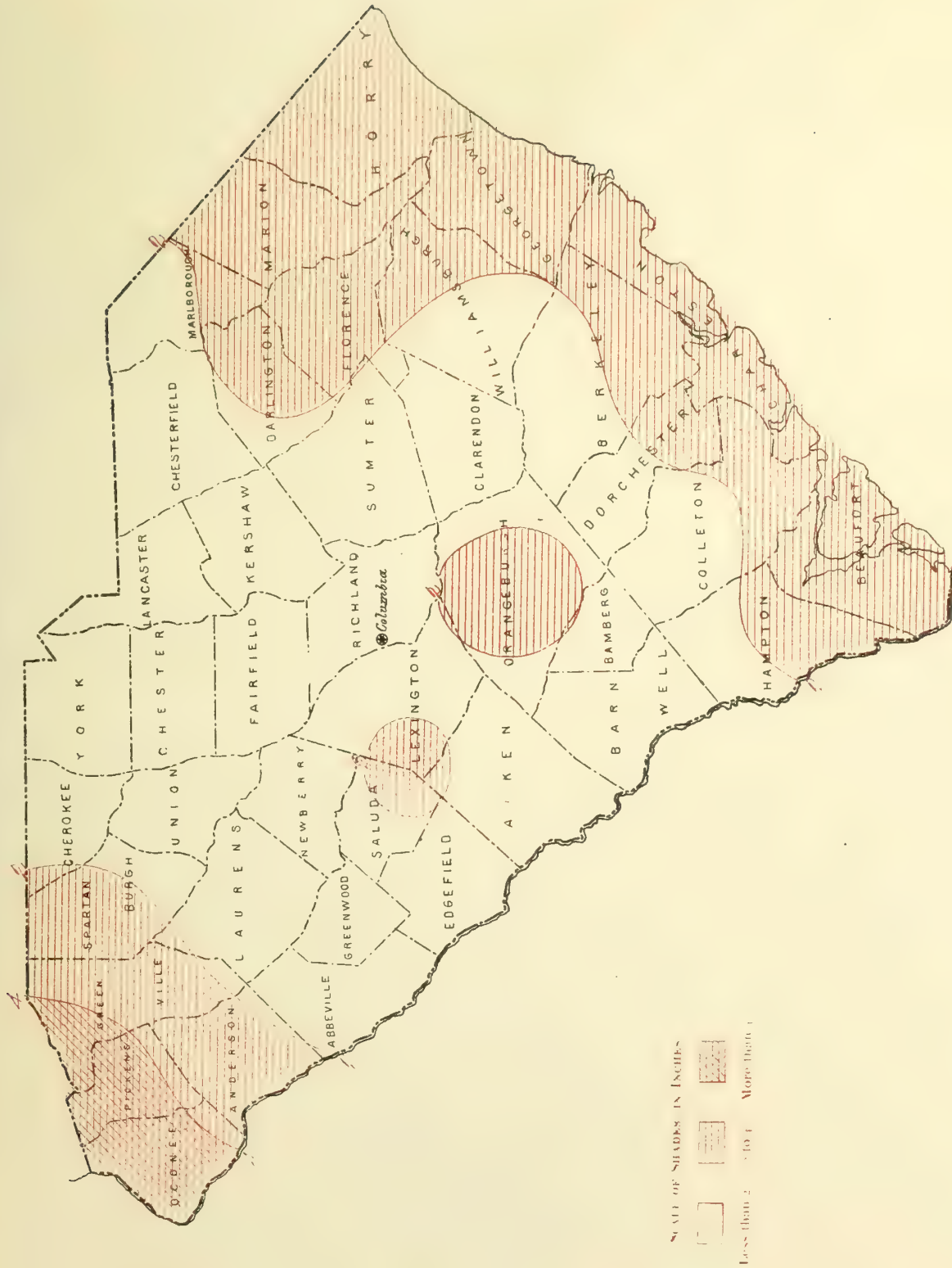


## STATIONS.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.  
† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR OCTOBER, 1905.





[illegible]

T. indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR NOVEMBER, 1905.

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SOUTH CAROLINA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

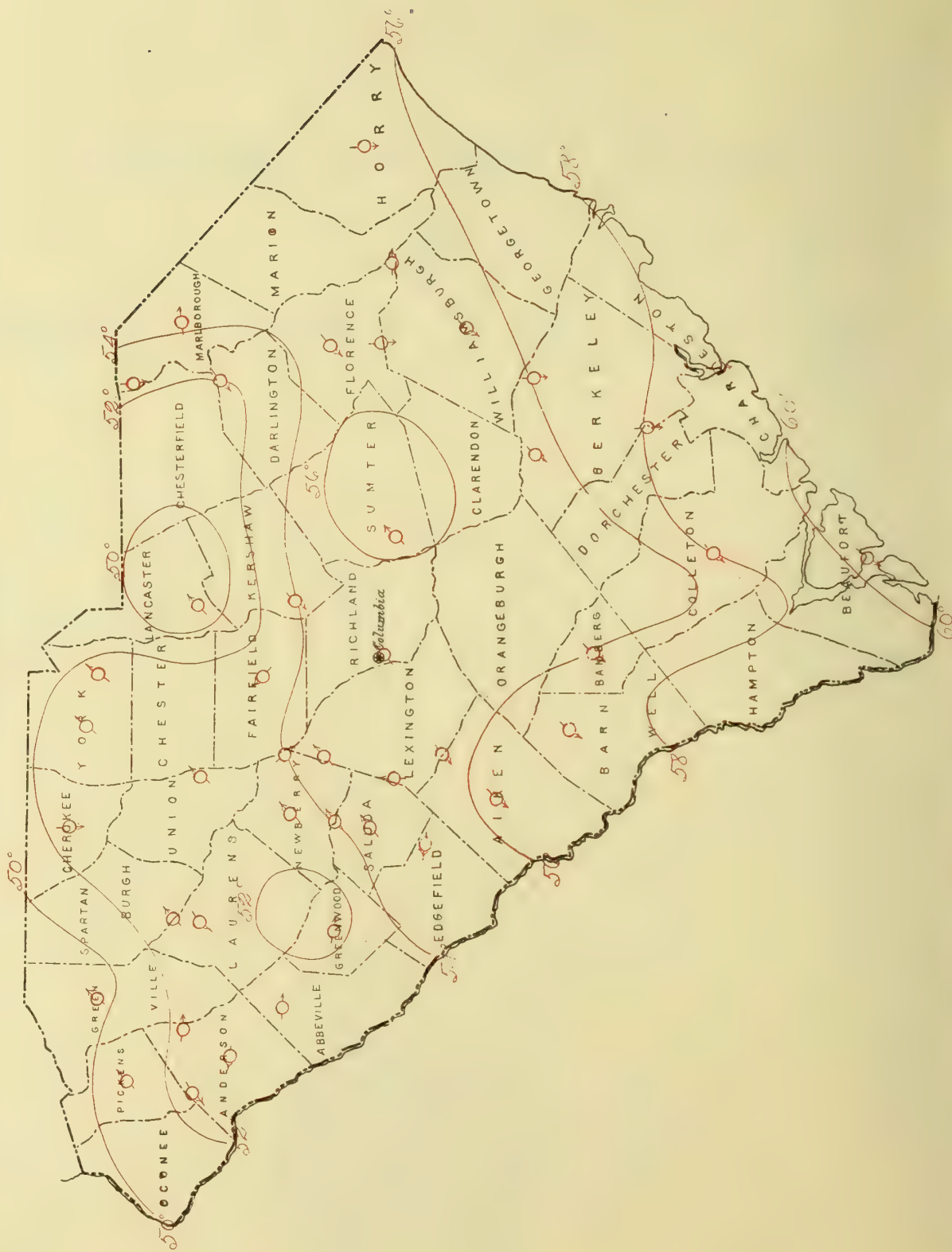
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE  
DECEMBER 19, 1905.

# MONTHLY MEAN TEMPERATURE AND PREVAILLING WINDS FOR NOVEMBER, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATE AND CROP SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.  
  
SOUTH CAROLINA SECTION.  
J. W. BAUER, Section Director.  
COLUMBIA, S. C.

Vol. VIII. COLUMBIA, S. C., NOVEMBER, 1905. No. 11.

**PROGRESS OF FARM WORK.**

November is devoted mainly, by the farmers, to finishing harvesting operations and to seeding winter grains, for both of which the weather was favorable during the current month, except that in places it was too dry for the thorough preparation of lands.

The month averaged warmer than usual, due principally to the closing week, which had unusually high temperatures. There was no severe cold weather, but light frosts were of frequent occurrence, and the first killing frost of the season occurred on the 2nd, 11th, 12th, 15th, 17th, 21st and 22nd, respectively, at different stations of this service. On the 12th, 15th and 22nd, thin ice formed to within a few miles of the coast. These frosts and ice did practically no damage, as all crops were ripe and most of them harvested, in the interior, while in the coast truck regions the frosts were not heavy enough to materially injure growing vegetables.

The average precipitation was, with the exception of 1901, the smallest November amount of record. There were no heavy rains in any portion of the State. The rainfall was quite evenly distributed, and it was heaviest in the upper Savannah valley where a narrow strip had slightly in excess of two inches, while the rest of the State had from half an inch to nearly two inches, except upper Dorchester county where no rain fell this month.

The absence of heavy rains was a favorable condition for finishing harvesting operations, and particularly for practically finishing picking cotton, although the amount picked was small owing to the exceptionally favorable weather during the previous three months for this work. In scattered localities laborers are scarce and there a small portion of the crop remains unpicked.

The housing of sweet potatoes, the cribbing of corn, and the gathering of other minor crops were finished.

The drought interfered to a considerable extent with fall seeding, as clay lands were too hard to plow and prepare, except in Pickens county where the ground was too wet during the last half of the month. While the greater portion of a large proposed acreage of wheat and oats was planted, sowings will not be completed until about the middle of December. Early sown grains germinated favorably and came up to good stands. In the coast and other truck raising regions the lack of sufficient moisture retarded growth of some vegetables, although on the whole winter truck is in fair condition.

The drought caused many wells to fail, and small branches to dry up, while larger streams were at practically low water stages the entire month.

**NOVEMBER WEATHER.**

Unlike in October, the mean temperature in November depends not on either the day or night temperatures alone, as the average of both show about the same range in the last twelve years. The mean of the day, or maximum, temperatures was 70° in 1896, the highest, and was 60.2° in 1901, the lowest on record. The mean of the night temperatures was 48.8 in 1902, the highest, and was 36.2° in 1901, the lowest, on record. The coldest November was that of 1901, followed by the warmest in 1902. On three years the maximum rose to 90°, or above, in some part of the State, and the minimum was below 32 in every year. The lowest minimum recorded was 10° at Clemson College in 1903. Frosts are of frequent occurrence this month, and the average date of first killing frost is November 10th. Along the immediate coast killing frosts do not usually occur, but light frosts are not rare.

The average precipitation is less in November than for any other month, and it is the only month whose average is under three inches. The rainfall is usually well distributed geographically, although stations either near the coast or in the mountain districts record the largest amounts. Excessive precipitation rarely occurs, although in 1896 4.36 inches fell at Cheraw in 24 hours, this being the largest 24-hour fall of record. The average number of days with rain is six, and in 1905 it was only three, this being the least on record.

Snow has occurred on six of the twelve years under review, but the State average depth was a measureable quantity in 1901 only, being generally merely a trace. The occurrence of snow in November is rare in the eastern half of the State.

The prevailing direction of the wind shows greater variability than the preceding three months, but the prevailing wind is still from the northeast. Clear skies predominate, the average number of clear days being 14, partly cloudy 8, and cloudy ones 8. The conditions as to the relative humidity and other climatic elements are usually such as to make November the most exhilarant month of the year.

**Temperature, Rainy Days and Wind.**

| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|
| 1894 .. | 52.3       | 62.7      | 42.3      | 83            | 17           | 4           | nw.               |
| 1895 .. | 54.4       | 64.7      | 44.4      | 88            | 21           | 6           | ne.               |
| 1896 .. | 59.1       | 70.0      | 48.6      | 90            | 26           | 7           | ne.               |
| 1897 .. | 55.3       | 66.9      | 43.7      | 88            | 23           | 5           | sw.               |
| 1898 .. | 51.0       | 61.1      | 41.0      | 82            | 14           | 10          | ne.               |
| 1899 .. | 55.0       | 65.8      | 44.1      | 86            | 22           | 5           | sw.               |
| 1900 .. | 55.6       | 66.6      | 44.6      | 92            | 22           | 5           | n.                |
| 1901 .. | 48.2       | 60.2      | 36.2      | 85            | 17           | 5           | ne.               |
| 1902 .. | 59.2       | 69.5      | 48.8      | 89            | 22           | 5           | n.                |
| 1903 .. | 50.9       | 61.5      | 40.3      | 86            | 10           | 5           | w.                |
| 1904 .. | 51.6       | 63.5      | 39.7      | 80            | 22           | 6           | sw.               |
| 1905 .. | 54.5       | 66.7      | 42.3      | 90            | 21           | 3           |                   |

**Precipitation.**

| Year.     | State Average. | Greatest Monthly. | Place.         | Least Monthly. | Place.         |
|-----------|----------------|-------------------|----------------|----------------|----------------|
| 1894..... | 2.02           | 4.20              | Pinopolis.     | 0.61           | Spartanburg.   |
| 1895..... | 2.35           | 4.46              | Pinopolis.     | 0.40           | Shaws Forks.   |
| 1896..... | 4.00           | 9.84              | Greenville.    | 1.12           | St. Matthews.  |
| 1897..... | 1.09           | 5.05              | Gaffney.       | 0.26           | Gillisonville. |
| 1898..... | 6.41           | 6.41              | Gillisonville. | 2.58           | Yorkville.     |
| 1899..... | 4.72           | 8.10              | Georgetown.    | 0.72           | Florence.      |
| 1900..... | 3.32           | 5.45              | Spartanburg.   | 1.50           | Georgetown.    |
| 1901..... | 1.01           | 3.10              | Georgetown.    | 0.36           | Winnsboro.     |
| 1902..... | 3.80           | 7.01              | Greenville.    | 1.70           | Calhoun Falls. |
| 1903..... | 1.40           | 3.17              | Batesburg.     | Trace          | Georgetown.    |
| 1904..... | 2.78           | 4.39              | Yorkville.     | 1.20           | Conway.        |
| 1905..... | 1.31           | 2.41              | Liberty.       | 0.00           | St. George.    |



BAROMETER AND WIND TABLE FOR NOVEMBER, 1905.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 30.12      | 30.58    | 22    | 29.54   | 16    | 4,644           | 6.4             | 34                | sw.        | 29    |
| Charleston.....       | 30.11      | 30.52    | 22    | 29.74   | 16    | 7,872           | 10.9            | 35                | ne.        | 14    |
| Charlotte, N. C.....  | 30.12      | 30.60    | 22    | 29.63   | 16    | 5,194           | 7.2             | 38                | sw.        | 29    |
| Columbia.....         | 30.11      | 30.58    | 22    | 29.68   | 16    | 5,195           | 7.2             | 36                | sw.        | 29    |
| Savannah, Ga.....     | 30.10      | 30.49    | 22    | 29.80   | 16    | 5,419           | 7.5             | 24                | w.         | 16    |
| Wilmington, N. C..... | 30.08      | 30.51    | 22    | 29.65   | 16    | 5,739           | 8.0             | 29                | sw.        | 29    |
| Averages.....         | 30.11      | 30.60    | 22    | 29.54   | 16    | 5,677           | 7.9             | 38                | sw.        | 29    |

## CLIMATOLOGY FOR THE MONTH.

## Temperature, in Degrees Fahrenheit.

The mean temperature for November, 1905, was 54.5° which is 1.4° above normal. The highest local mean was 60.0° at Beaufort; the lowest was 48.5° at Greenville. The monthly extremes were a maximum of 90° at Gaffney on the 26th; a minimum of 21° at Greenville on the 23rd, 24th, and at Seivern on the 22nd, making the State range 69°. The greatest local monthly range was 66° at Gaffney, the least was 42° at Charleston. The mean of the daily maximum temperatures was 66.7°, and of the daily minimum temperatures was 42.3°, making the average daily range 24.4°.

## Ice.

Thin ice was noted and recorded as follows: Columbia, Stateburg 15th, 22nd; Greenville 22nd; Newberry, Santuc 11th; Summerville 12th, 22nd.

## Frosts.

First killing.—Liberty 2nd; Barksdale, Santuc 11th; Anderson, Bowman, Conway, Dillon, Trial 12th; Aiken, Bennettsville, Florence, Greenwood, Society Hill, Stateburg, Sumter, Winthrop College, Yorkville 15th; Clemson College, St. Matthews 17th; Georgetown, Winnsboro 21st; Blackville, Clarks Hill, Columbia, Greenville, St. George, Spartanburg, Summerville, Trenton, Walterboro, Yemassee 22nd.

## Precipitation, in Inches.

The precipitation averaged 1.31 inches which is 1.53 below normal. The greatest local monthly amount was 2.41 at Liberty; the least was 0.00 at St. George. The greatest 24-hour fall was 1.90 at Liberty on the 20th. The average number of days with 0.01, or more, precipitation was 3, ranging from none at St. George to 7 at Newberry and Pelzer.

## Winds.

The prevailing direction of the wind was from the southwest at 15 stations, from the northeast at 13, from the north at 9, from the west at 5, from the northwest at 4, and from the southeast and south at 1 station each.

High Winds.—Blackville, Little Mountain 16th; Charleston, Yorkville 14th; Clarks Hill, Newberry 30th; Columbia 14th, 29th; Liberty 14th, 15th, 16th; Seivern 8th, 17th; Society Hill 14th, 30th; Summerville 14th, 16th.

## Weather.

The average number of clear days was 17, of partly cloudy ones 6, and of cloudy ones 7.

## PRESERVE THE FORESTS.

While it is doubtful that forests cause increased precipitation, there is no question but that they conserve the rainfall, in its off-flow, and in upper South Carolina the latter fact is of more importance than an increased amount of precipitation would be. This was forcibly illustrated during the current month by the low stage of water in the Broad River, that at one time threatened a water famine in Columbia which city takes its water supply from this river.

The economic value of a steady flow of considerably more than an extreme low water stage was shown by a cotton mill being forced to shut down for a time owing to an insufficient supply of water for the power plant which generates the electricity used in operating the machinery of the mill, and also by the necessity of the partial suspension of the trips, and light loading of the boat that plies between Columbia and Georgetown.

As manufactories that depend on water power increase, and when the boat line becomes a more important factor in the transportation facilities of Columbia, the question of securing a steady and sufficient flow in the streams of the upper part of the State will become a serious one.

## REMARKS BY OBSERVERS.

BARKSDALE.—The month was favorable for sowing grain, but closed cold. BATESBURG.—Cotton all picked and practically all corn and peas were gathered, and some grain was sown, by the close of the month. There was a light ground freeze on the 22nd. BEAUFORT.—Mean temperature 0.7 above normal, while the precipitation was 0.91 inch less than normal. HEATH SPRINGS.—Weather very dry, with about normal temperature. All crops harvested. Oats came up well. LIBERTY.—While the rains were generally light during the last half of the month the ground was too wet to plow, and there remains some wheat to sow. Early sowings came up nicely. Crops all gathered, and plowing stubble-land is well under way. LITTLE MOUNTAIN.—The month was favorable for sowing grain. A larger acreage than usual has been sown. Stands are fine. NEWBERRY.—Although there have been heavy frost and ice, the second growth of cotton was not all killed. SANTUC.—There was no extreme weather during the month and the temperature was steadily about normal. The month was dry, and streams became very low, the rain that fell seemingly wetting only the surface soil, and there was no run off. SEIVERN.—The month was extremely dry. Wells and small creeks going dry. STATEBURG.—Rain on 5 days, and moderately heavy on one only, the 10th when 0.98 inch fell putting the soil into good condition for sowing oats. General killing frosts and thin ice on the 15th and 22nd. On account of the difficulty of securing laborers, some farmers have not finished picking cotton. SUMMERVILLE.—First ice on the 12th did no damage to plants, but ice on the 22nd hurt them slightly. TRENTON.—Precipitation 1.06 inches less than the normal for this month, and 15.75 less than the average for the first 11 months of the year. Wells are drying up and water is scarce. Rain badly needed for small grains, and to replenish wells.



CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER, 1905.

| STATIONS.                             | Counties.         | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                             |                    | Sky.               |                            |                     |                      | Prevailing direction of wind. | Observers. |
|---------------------------------------|-------------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|---------------------|----------------------|-------------------------------|------------|
|                                       |                   |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total—snowfall (undrained.) | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. |                      |                               |            |
|                                       |                   |                 |                         |                                    |                            |          |       |         |       |                          |        |                            |                       |                             |                    |                    |                            |                     |                      |                               |            |
| Aiken.....                            | Aiken.....        | 565             | 21                      | 56.5                               | +1.6                       | 80       | 29    | 20      | 22    | 33                       | 1.99   | -0.70                      | 1.54                  | 0                           | 2                  | 28                 | 1                          | 1                   | ne.                  | C. F. McGahan, M. D.          |            |
| Allendale.....                        | Barnwell.....     | 186             | 17                      | 59.2                               | +3.7                       | 86       | 28    | 33      | 23    | 36                       | 1.10   | 1.32                       | 1.10                  | 0                           | 1                  | 21                 | 0                          | 9                   | .....                | C. A. Glover.                 |            |
| Anderson.....                         | Anderson.....     | 764             | 4                       | 53.8                               | +3.8                       | 77       | 19    | 27      | 23    | 36                       | 2.06   | -1.19                      | 0.92                  | 0                           | 4                  | 12                 | 8                          | 10                  | e.                   | H. H. Russell.                |            |
| Augusta, Ga.....                      | Richmond.....     | 134             | 34                      | 55.8                               | +2.4                       | 80       | 29    | 32      | 22    | 36                       | 1.53   | -1.52                      | 1.44                  | 0                           | 3                  | 15                 | 9                          | 6                   | nw.                  | Weather Bureau.               |            |
| Barksdale.....                        | Laurens.....      | 780             | 4                       | 52.2                               | .....                      | 79       | 26    | 25      | 23    | 35                       | 0.92   | .....                      | 0.20                  | 0                           | 6                  | 18                 | 8                          | 4                   | ne.                  | J. T. Garrett.                |            |
| Batesburg.....                        | Lexington.....    | 656             | 17                      | 54.5                               | +0.4                       | 78       | 29    | 29      | 22    | 35                       | 1.29   | 1.35                       | 1.12                  | 0                           | 5                  | 16                 | 6                          | 8                   | s.                   | E. J. Hite.                   |            |
| Beaufort.....                         | Beaufort.....     | 28              | 19                      | 60.0                               | +0.7                       | 79       | 19    | 34      | 22    | 31                       | 1.34   | -0.91                      | 1.03                  | 0                           | 5                  | 18                 | 9                          | 3                   | se.                  | S. M. Benton.                 |            |
| Bennettsville.....                    | Marlboro.....     | .....           | 4                       | 54.5                               | .....                      | 80       | 29    | 28      | 15    | 38                       | 1.11   | .....                      | 0.75                  | 0                           | 4                  | 17                 | 8                          | 4                   | w.                   | C. S. McCall.                 |            |
| Blackville.....                       | Barnwell.....     | 296             | 17                      | 56.2                               | +0.5                       | 82       | 29    | 29      | 22    | 37                       | 1.28   | -0.80                      | 1.01                  | 0                           | 3                  | 19                 | 11                         | 0                   | ne.                  | G. D. C. Lange.               |            |
| Blair.....                            | Fairfield.....    | 293             | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.28   | .....                      | 1.04                  | 0                           | 5                  | 14                 | 8                          | 8                   | nw.                  | T. S. McMeekin.               |            |
| Bowman.....                           | Orangeburg.....   | 160             | 4                       | 55.2                               | .....                      | 81       | 29    | 29      | 22    | 39                       | 1.60   | .....                      | 1.60                  | 0                           | 1                  | 16                 | 2                          | 2                   | w.                   | B. O. Evans.                  |            |
| Calhoun Falls.....                    | Abbeville.....    | 508             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.26   | -2.06                      | 0.84                  | 0                           | 2                  | 22                 | 0                          | 8                   | nw.                  | P. J. Pfeiffer.               |            |
| Camden.....                           | Kershaw.....      | 222             | 39                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.12   | -1.22                      | 1.12                  | 0                           | 1                  | 15                 | 5                          | 10                  | ne.                  | J. C. Whitaker.               |            |
| Chappells.....                        | Newberry.....     | 402             | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.54   | .....                      | 1.12                  | 0                           | 4                  | 18                 | 2                          | 10                  | sw.                  | W. F. Glenn.                  |            |
| Charleston.....                       | Charleston.....   | 48              | 36                      | 58.9                               | +1.3                       | 77       | 7     | 35      | 22    | 26                       | 0.94   | -2.06                      | 0.88                  | 0                           | 3                  | 14                 | 11                         | 5                   | n.                   | Weather Bureau.               |            |
| Charlotte, N. C.....                  | Mecklenburg.....  | 808             | 27                      | 51.4                               | +1.5                       | 73       | 18    | 26      | 15    | 35                       | 0.57   | -2.48                      | 0.55                  | 0                           | 3                  | 11                 | 10                         | 9                   | sw.                  | Weather Bureau.               |            |
| Cheraw (1).....                       | Chesterfield..... | 144             | 17                      | 51.8                               | -1.0                       | 80       | 29    | 26      | 15    | 40                       | 1.10   | -1.10                      | 0.48                  | 0                           | 4                  | 13                 | 7                          | 10                  | n.                   | W. R. Godfrey.                |            |
| Cheraw (2).....                       | .....             | 144             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.13   | -1.79                      | 0.50                  | 0                           | 6                  | 15                 | 10                         | 5                   | n.                   | Jno. H. Power.                |            |
| Clarks Hill.....                      | Edgefield.....    | 456             | 3                       | 54.7                               | .....                      | 79       | *28   | 28      | 22    | 38                       | 2.23   | .....                      | 1.42                  | 0                           | 3                  | 8                  | 11                         | 7                   | .....                | Wm. S. Middleton.             |            |
| Clemson College.....                  | Oconee.....       | 850             | 14                      | 52.6                               | +1.4                       | 75       | *13   | 24      | 23    | 36                       | 1.49   | -1.72                      | 1.09                  | 0                           | 2                  | 15                 | 5                          | 10                  | ne.                  | Jno. N. Hook.                 |            |
| Columbia.....                         | Richland.....     | 351             | 18                      | 55.2                               | +0.4                       | 79       | 29    | 30      | 15    | 34                       | 1.30   | -1.04                      | 1.13                  | 0                           | 5                  | 13                 | 10                         | 7                   | sw.                  | Central Office.               |            |
| Conway.....                           | Horry.....        | 25              | 14                      | 55.4                               | .....                      | 81       | 29    | 30      | *15   | 40                       | 1.30   | -1.46                      | 1.15                  | 0                           | 2                  | 15                 | 2                          | 13                  | n.                   | Miss M. G. Quattlebaum.       |            |
| Darlington.....                       | Darlington.....   | 175             | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | Miss F. G. McIver.   |                               |            |
| Dillon.....                           | Marion.....       | 100             | 1                       | 53.6                               | .....                      | 80       | 29    | 25      | 15    | 42                       | 1.45   | .....                      | 0.76                  | 0                           | 4                  | .....              | .....                      | .....               | A. E. Rowell.        |                               |            |
| Due West.....                         | Abbeville.....    | 740             | 4                       | 56.7                               | .....                      | 76       | 19    | 30      | *15   | 30                       | 1.67   | .....                      | 1.20                  | 0                           | 3                  | 19                 | 3                          | 8                   | w.                   | Rev. O. Y. Bonner.            |            |
| Edisto.....                           | Bamberg.....      | 127             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.65   | -1.49                      | 1.25                  | 0                           | 2                  | 20                 | 3                          | 7                   | ne.                  | Mrs. M. Thompson.             |            |
| Ellingham.....                        | Florence.....     | 106             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.05   | -1.61                      | 1.05                  | 0                           | 1                  | 21                 | 0                          | 9                   | n.                   | H. B. McCall.                 |            |
| Enoree.....                           | Spartanburg.....  | 987             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.28   | .....                      | 0.80                  | 0                           | 4                  | 18                 | 0                          | 12                  | sw.                  | E. P. Porter.                 |            |
| Florence.....                         | Florence.....     | 136             | 17                      | 54.4                               | -0.9                       | 78       | 19    | 27      | 15    | 38                       | 1.27   | -1.18                      | 1.18                  | 0                           | 2                  | 14                 | 1                          | 15                  | ne.                  | H. K. Gilbert.                |            |
| Gaffney.....                          | Cherokee.....     | 893             | 9                       | 53.0                               | .....                      | 90       | 26    | 24      | *22   | 54                       | 0.85   | -2.79                      | 0.70                  | 0                           | 3                  | 18                 | 6                          | 6                   | n.                   | B. F. Camp.                   |            |
| Georgetown.....                       | Georgetown.....   | 12              | 12                      | 57.8                               | +1.1                       | 82       | 6     | 29      | 30    | 34                       | 1.20   | -1.30                      | 1.20                  | 0                           | 1                  | .....              | .....                      | .....               | nw.                  | Reid Whitford.                |            |
| Greenville.....                       | Greenville.....   | 989             | 13                      | 48.5                               | -2.0                       | 74       | 18    | 21      | *23   | 43                       | 1.44   | -2.46                      | 1.10                  | T.                          | 3                  | 16                 | 1                          | 13                  | sw.                  | Mrs. S. A. Crittenden.        |            |
| Greenwood.....                        | Greenwood.....    | 671             | 17                      | 51.6                               | -0.8                       | 74       | *19   | 28      | *22   | 37                       | 1.83   | -1.21                      | 1.41                  | 0                           | 5                  | 19                 | 1                          | 10                  | w.                   | M. M. Calhoun.                |            |
| Heath Springs.....                    | Lancaster.....    | 568             | 4                       | 49.3                               | .....                      | 70       | 29    | 26      | 15    | 32                       | 1.18   | .....                      | 0.50                  | 0                           | 6                  | 14                 | 10                         | 6                   | sw.                  | J. A. Weaver.                 |            |
| Kingstree (1).....                    | Williamsburg..... | 54              | 17                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | J. A. Scott.         |                               |            |
| Kingstree (2).....                    | .....             | 54              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.30   | -1.55                      | 1.00                  | 0                           | 3                  | 18                 | 3                          | 9                   | ne.                  | A. O. Matthews.               |            |
| Liberty.....                          | Pickens.....      | 900             | 11                      | 51.9                               | +1.6                       | 73       | *18   | 23      | 23    | 38                       | 2.41   | -0.52                      | 1.90                  | 0                           | 6                  | 17                 | 6                          | 7                   | sw.                  | Jno. T. Boggs.                |            |
| Little Mountain.....                  | Newberry.....     | 711             | 12                      | 55.4                               | +0.1                       | 78       | 29    | 26      | 22    | 36                       | 1.55   | -1.16                      | 1.23                  | 0                           | 3                  | 19                 | 8                          | 3                   | sw.                  | John M. Sease, M. D.          |            |
| Lugoff.....                           | Kershaw.....      | 168             | 4                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | W. J. Burdell, M. D. |                               |            |
| Newberry.....                         | Newberry.....     | 502             | 1                       | 53.0                               | -0.1                       | 77       | 29    | 28      | 22    | 37                       | 1.71   | -1.62                      | 1.26                  | 0                           | 7                  | 13                 | 7                          | 10                  | sw.                  | W. G. Peterson.               |            |
| Pelzer.....                           | Anderson.....     | 873             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.59   | .....                      | 0.88                  | 0                           | 7                  | 17                 | 4                          | 9                   | w.                   | John M. Ward.                 |            |
| Pinopolis.....                        | Berkeley.....     | 54              | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | E. P. Ravenel.       |                               |            |
| St. Georges.....                      | Dorchester.....   | 109             | 17                      | 55.6                               | -0.2                       | 80       | 29    | 30      | 22    | 39                       | 0.00   | -2.46                      | 0.00                  | 0                           | 0                  | 23                 | 0                          | 7                   | .....                | W. B. Rayson.                 |            |
| St. Matthew.....                      | Orangeburg.....   | 269             | 17                      | 53.8                               | -2.0                       | 75       | 20    | 30      | *16   | 38                       | 1.45   | -0.74                      | 1.30                  | 0                           | 3                  | 25                 | 0                          | 5                   | .....                | J. S. Wannamaker.             |            |
| St. Stephen.....                      | Berkeley.....     | 73              | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.14   | -1.33                      | 1.00                  | 0                           | 3                  | 18                 | 1                          | 11                  | n.                   | C. T. Shuler.                 |            |
| Saluda.....                           | Saluda.....       | 536             | 4                       | 54.4                               | .....                      | 79       | 29    | 27      | 23    | 40                       | 1.26   | .....                      | 0.95                  | 0                           | 3                  | 21                 | 3                          | 6                   | sw.                  | Alvin Etheridge.              |            |
| Santee.....                           | Union.....        | 512             | 12                      | 53.3                               | -1.8                       | 78       | 19    | 25      | 22    | 43                       | 0.84   | -2.42                      | 0.40                  | 0                           | 4                  | 13                 | 7                          | 10                  | sw.                  | E. W. Jeter.                  |            |
| Savannah, Ga.....                     | Chatham.....      | 71              | 36                      | 59.6                               | +1.8                       | 80       | 6     | 34      | 22    | 29                       | 1.26   | -1.02                      | 1.07                  | 0                           | 2                  | 13                 | 8                          | 9                   | n.                   | Weather Bureau.               |            |
| Severn.....                           | Aiken.....        | 482             | 4                       | 52.2                               | -2.8                       | 81       | 29    | 21      | 22    | 48                       | 1.44   | -1.70                      | 0.91                  | 0                           | 5                  | 14                 | 7                          | 9                   | ne.                  | Geo. C. Gunter.               |            |
| Smiths Mills.....                     | Williamsburg..... | 62              | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.00   | -2.34                      | 1.00                  | 0                           | 1                  | 21                 | 0                          | 9                   | w.                   | H. van Keuren.                |            |
| Society Hill.....                     | Darlington.....   | 192             | 14                      | 50.8                               | -2.3                       | 77       | 29    | 27      | 30    | 34                       | 1.33   | -1.21                      | 1.00                  | 0                           | 4                  | 18                 | 6                          | 6                   | ne.                  | J. J. Lucas.                  |            |
| Spartanburg.....                      | Spartanburg.....  | 875             | 14                      | 51.6                               | -0.1                       | 77       | *18   | 27      | 23    | 38                       | 1.16   | -1.99                      | 0.88                  | 0                           | 3                  | 8                  | 0                          | 7                   | .....                | F. P. Robinson.               |            |
| Stateburg.....                        | Sumter.....       | 500             | 28                      | 56.2                               | +2.0                       | 80       | 29    | 28      | *15   | 33                       | 1.23   | -0.85                      | 0.98                  | 0                           | 5                  | 13                 | 4                          | 13                  | sw.                  | W. W. Anderson, M. D.         |            |
| Summerville.....                      | Dorchester.....   | 75              | 8                       | 57.2                               | +1.1                       | 81       | 29    | 30      | 22    | 38                       | 1.46   | -2.01                      | 1.10                  | 0                           | 3                  | 13                 | 15                         | 2                   | sw.                  | Miss E. H. Gadsden.           |            |
| Sumter.....                           | Sumter.....       | 169             | 4                       | 57.0                               | .....                      | 81       | *29   | 26      | 15    | 43                       | 1.25   | .....                      | 6.67                  | 0                           | 4                  | 13                 | 3                          | 10                  | e.                   | H. A. Moses.                  |            |
| †Trenton.....                         | Edgefield.....    | 620             | 12                      | 54.6                               | -2.1                       | 80       | 29    | 28      | 22    | 37                       | 1.83   | -1.06                      | 1.36                  | 0                           | 3                  | 17                 | 7                          | 6                   | e.                   | C. A. Long.                   |            |
| Trial.....                            | Berkeley.....     | 85              | 19                      | 55.8                               | -0.1                       | 80       | 29    | 31      | *12   | 39                       | 1.06   | -1.51                      | 0.75                  | 0                           | 2                  | 15                 | 12                         | 3                   | ne.                  | Etsell Gaillard.              |            |
| Walhalla.....                         | Oconee.....       | 1061            | 14                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | Miss L. E. Isbell.   |                               |            |
| Walterboro.....                       | Colleton.....     | 69              | 2                       | 58.8                               | .....                      | 84       | 29    | 30      | 22    | 42                       | 1.62   | .....                      | 1.00                  | 0                           | 3                  | 24                 | 4                          | 2                   | ne.                  | J. A. Westerberg.             |            |
| Wilmington, N. C.....                 | New Hanover.....  | 52              | 36                      | 54.8                               | +0.2                       | 77       | 29    | 28      | 15    | 33                       | 0.78   | -1.67                      | 0.65                  | 0                           | 4                  | 15                 | 8                          | 7                   | n.                   | Weather Bureau.               |            |
| Winnboro.....                         | Fairfield.....    | 545             | 16                      | 53.4                               | -0.1                       | 75       | 26    | 28      | *21   | 35                       | 0.66   | -2.34                      | 0.30                  | 0                           | 4                  | 21                 | 6                          | 3                   | se.                  | John W. Seigler.              |            |
| Winthrop College.....                 | York.....         | 690             | 6                       | 53.0                               | -0.3                       | 75       | 29    | 26      | 15    | 33                       | 0.95   | -2.04                      | 0.82                  | T.                          | 4                  | 19                 | 5                          | 6                   | sw.                  | E. R. Rivers.                 |            |
| Yemassee.....                         | Beaufort.....     | 23              | 10                      | 56.0                               | -1.1                       | 79       | 29    | 29      | 22    | 38                       | 1.61   | -0.93                      | 1.42                  | 0                           | 4                  | 18                 | 0                          | 12                  | .....                | J. G. Hutson.                 |            |
| Yorkville.....                        | York.....         | 680             | 17                      | 54.5                               | +1.4                       | 78       | 18    | 28      | 15    | 37                       | 1.14   | -1.84                      | 1.11                  | 0                           | 2                  | 11                 | 10                         | 9                   | sw.                  | J. R. Schorb.                 |            |
| MEANS—highest, lowest and dates, etc. | .....             | .....           | .....                   | 54.5                               | +0.4                       | 90       | 26    | 21      | *22   | 54                       | 1.31   | -1.53                      | 1.90                  | T.                          | 3                  | 17                 | 6                          | 7                   | sw.                  | .....                         |            |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. ‡ Maximum thermometer not standard. † Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.



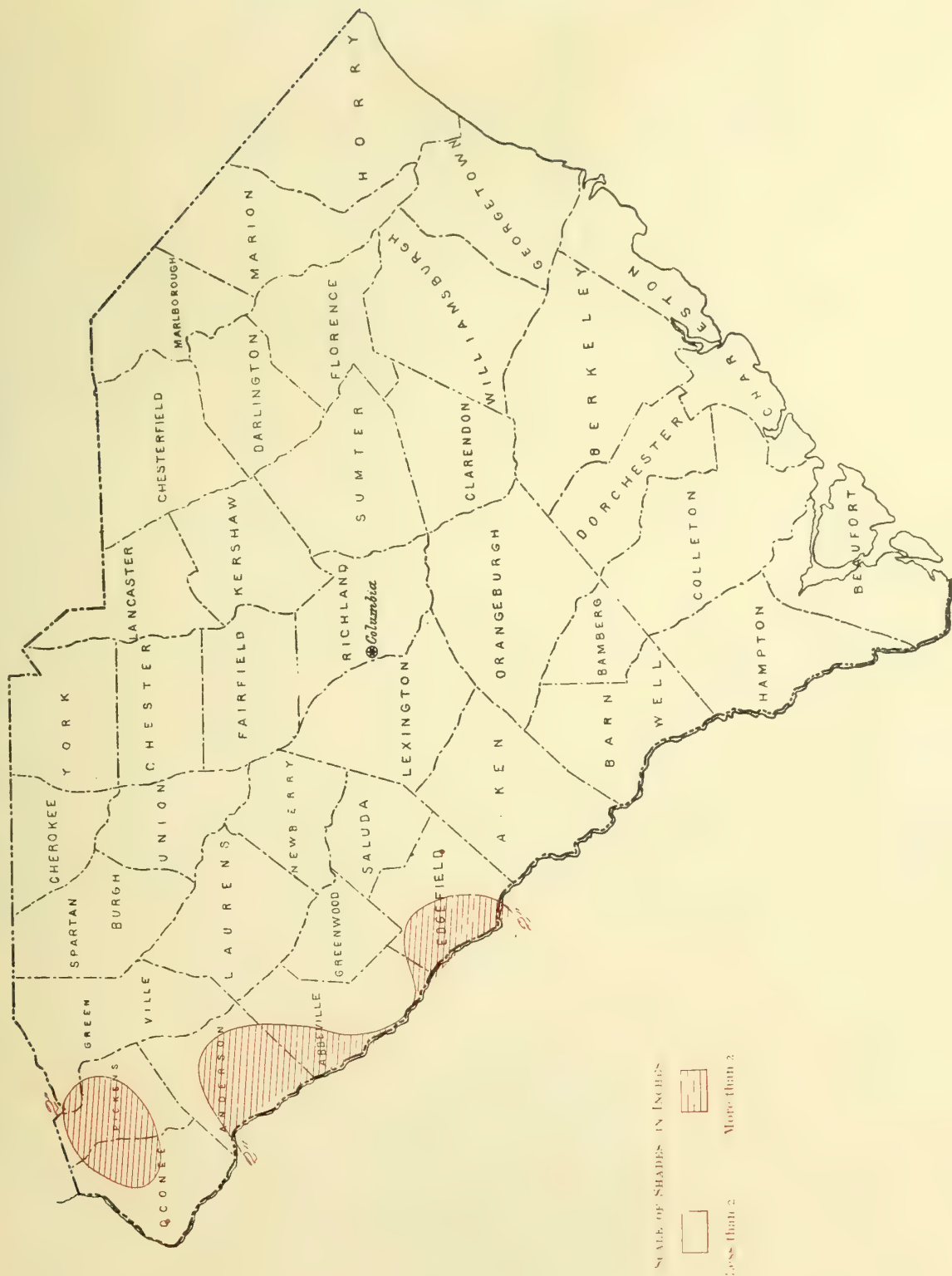
### STATIONS.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.  
+ The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.



TOTAL PRECIPITATION FOR NOVEMBER, 1905.



SCALE OF SHADES IN INCHES

|             |        |             |
|-------------|--------|-------------|
| Less than 2 | 2 to 3 | More than 3 |
|-------------|--------|-------------|

| STATIONS.        | Day of Month. |   |   |   |     |     |     |   |     |      |      |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    |      | Total. |
|------------------|---------------|---|---|---|-----|-----|-----|---|-----|------|------|------|----|----|----|----|----|----|----|------|-----|----|-----|-----|-----|-----|----|----|-----|----|------|--------|
|                  | 1             | 2 | 3 | 4 | 5   | 6   | 7   | 8 | 9   | 10   | 11   | 12   | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20   | 21  | 22 | 23  | 24  | 25  | 26  | 27 | 28 | 29  | 30 | 31   |        |
| Aiken            |               |   |   |   |     | .45 |     |   |     | 1.54 |      |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    | 1.99 |        |
| Allendale        |               |   |   |   |     |     |     |   |     | 1.10 |      |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    | 1.10 |        |
| Anderson         |               |   |   |   |     |     |     |   |     | .42  |      |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    | 2.06 |        |
| Augusta, Ga.     |               |   |   |   | T.  | .09 |     |   | .33 | 1.11 |      |      |    |    |    |    |    |    |    | .92  |     |    |     |     | .61 |     |    |    | .11 |    | 1.53 |        |
| Barksdale        |               |   |   |   | T.  | .10 |     |   |     | .20  |      |      |    |    |    |    |    |    |    | .19  |     |    |     | .20 | .11 |     |    |    |     |    | 0.91 |        |
| Batesburg        |               |   |   |   |     |     | .03 |   |     | .09  | 1.12 |      |    |    |    |    |    |    |    | .03  |     |    |     | .02 | T.  |     |    |    | .12 |    | 1.29 |        |
| Beaufort         |               |   |   |   |     |     |     |   |     | 1.03 | .14  |      |    |    |    |    |    |    |    |      |     |    | .02 | .13 | .02 |     |    | T. |     |    | 1.34 |        |
| Bennettsville    |               |   |   |   | .05 |     |     |   |     | .75  | .22  |      |    |    |    |    |    |    |    |      |     |    |     | .09 |     |     |    |    |     |    | 1.11 |        |
| Blackville       |               |   |   |   |     |     |     |   |     | .26  | 1.01 |      |    |    |    |    |    |    |    |      |     |    |     | .01 |     |     |    |    |     |    | 1.28 |        |
| Blairs           |               |   |   |   |     |     | .01 |   |     | .01  | 1.04 |      |    |    |    |    |    |    |    |      |     |    |     | .20 |     | .02 |    |    |     |    | 1.28 |        |
| Bowman           |               |   |   |   |     |     |     |   |     | 1.60 |      |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    | 1.60 |        |
| Calhoun Falls    |               |   |   |   |     |     |     |   |     | .42  | .84  |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    | 1.26 |        |
| Canden           |               |   |   |   |     |     |     |   |     | T.   | 1.12 |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    | 1.12 |        |
| Camphells        |               |   |   |   | T.  |     |     |   |     | .08  | 1.12 |      |    |    |    |    |    |    |    |      | .22 |    |     |     | T.  | .12 |    |    |     |    | .54  |        |
| Charleston       |               |   |   |   |     | T.  |     |   | T.  | .87  | .02  |      | T. |    |    |    |    |    |    |      |     |    |     |     | .05 |     |    |    |     |    | .94  |        |
| Charlotte, N. C. |               |   |   |   | T.  |     |     |   |     |      |      |      |    |    |    |    |    |    |    |      |     |    |     |     | T.  | .02 | T. |    | T.  | T. | .57  |        |
| Cheraw(1)        |               |   |   |   |     |     |     |   |     |      | .22  | .48  |    |    |    |    |    |    |    | .29  | .26 | T. |     |     | T.  | .15 |    |    |     |    | 1.10 |        |
| Cheraw(2)        |               |   |   |   |     |     |     |   |     | .06  | .50  |      |    |    |    |    |    |    |    |      | .25 |    |     |     | .13 |     |    |    |     | T. | 0.99 |        |
| Clark's Hill     | .11           |   |   |   |     | .61 | .07 |   |     | 1.42 |      |      |    |    |    |    |    |    |    |      | .26 | T. |     |     |     |     |    |    |     |    | 1.13 |        |
| Clemson College  |               |   |   |   |     |     |     |   |     |      |      |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    | 2.23 |        |
| Columbia         |               |   |   |   | T.  |     |     |   | .05 | 1.10 |      |      |    |    |    |    |    |    |    | 1.09 |     |    |     | .40 |     |     |    |    | T.  |    | 1.40 |        |
| Conway           |               |   |   |   |     |     |     |   |     |      | .15  | 1.15 |    |    |    |    |    |    |    |      |     | T. |     |     | T.  | .01 | T. |    |     |    | 1.30 |        |
| Darlington       |               |   |   |   |     |     |     |   |     |      |      |      |    |    |    |    |    |    |    |      |     |    |     |     | T.  |     |    |    |     |    | 1.30 |        |
| Dillon           |               |   |   |   |     |     |     |   |     |      |      |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    | 1.30 |        |
| Doe West         |               |   |   |   |     | T.  |     |   |     | .76  | .54  |      |    |    |    |    |    |    |    |      |     |    |     |     |     | .01 |    |    |     |    | 1.45 |        |
| Durham           |               |   |   |   |     |     |     |   |     |      |      |      |    |    |    |    |    |    |    |      |     |    |     |     |     |     |    |    |     |    |      |        |

T. indicates trace, less than .01 inch.



51.05  
880  
U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR DECEMBER, 1905.

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## SOUTH CAROLINA SECTION

OF THE

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF  
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

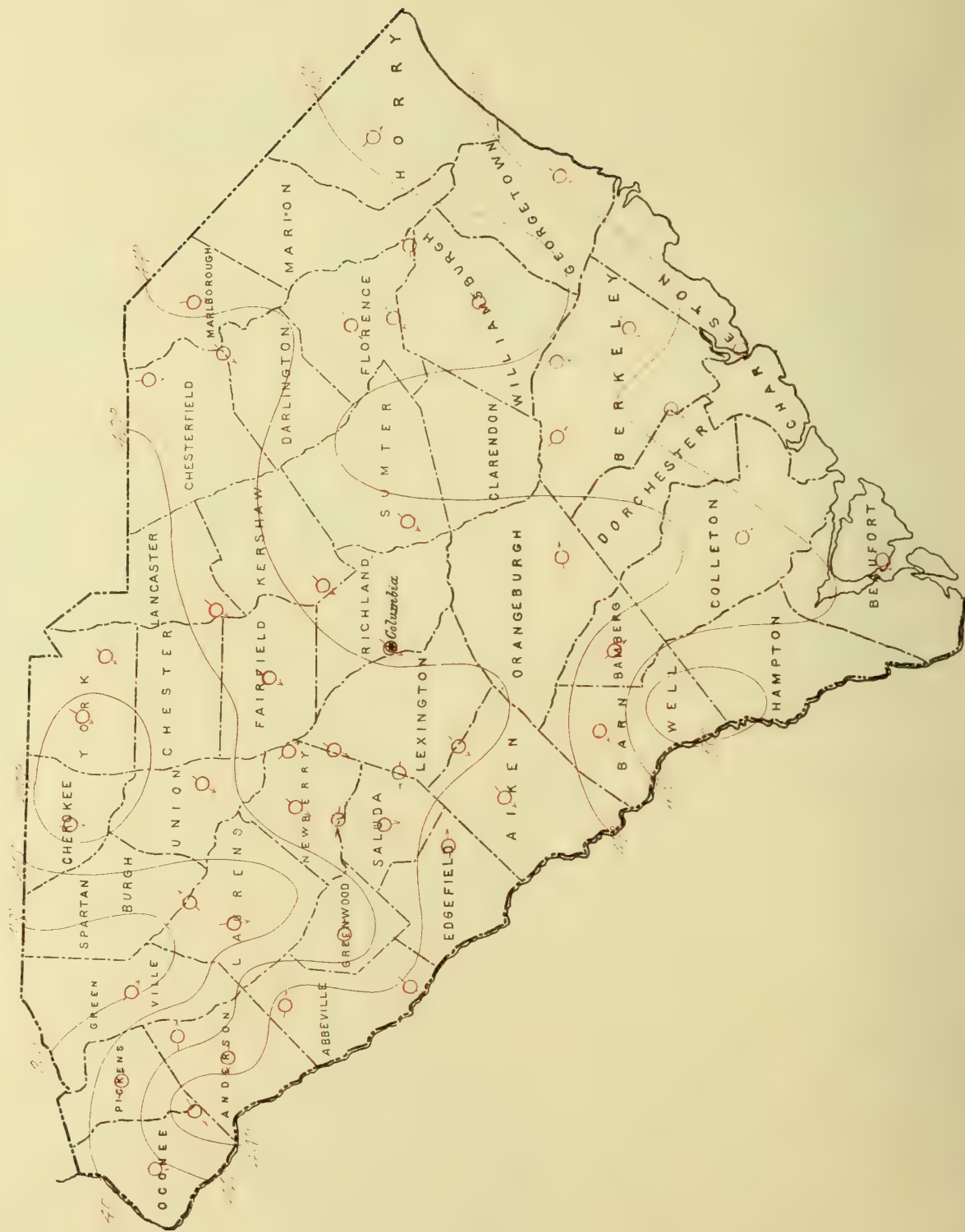
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE  
JANUARY 25, 1906.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1905.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATE AND CROP SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.

**SOUTH CAROLINA SECTION.**  
**J. W. BAUER, Section Director,**  
COLUMBIA, S. C.

VOL. VIII. COLUMBIA, S. C., DECEMBER, 1905. No. 12.

**CLIMATOLOGY FOR THE MONTH.**

**Temperature, in Degrees Fahrenheit.**

The mean temperature for December, 1905, was 45.2°, which is 2.1° below normal. The highest local mean was 50.6° at Allendale, the lowest was 38.0° at Greenville. The monthly extremes were a maximum of 77° at Walterboro on the 23rd, and a minimum of 16° at Greenville on the 5th, 6th and 7th, making the State range 61°. The greatest local monthly range was 53° at Gaffney and Seivern, the least was 38° at Winnsboro. The mean of the daily maximum temperatures was 54.7°, and of the daily minimum temperatures was 35.8°, making the average daily range 18.9°.

**Frosts.**

Frost, Killing, First of Season.—Beaufort 5th; Charleston 11th.

**Precipitation, in Inches.**

The precipitation averaged 7.25 inches, which is 3.96 above the normal. The greatest local amount was 11.18 at Chapels, the least was 3.18 at Kingstree. The greatest 24-hour fall was 4.20 at Liberty on the 2nd-3rd. The average number of days with rain was 10, ranging from 5 at Kingstree to 15 at Beaufort, Newberry and Summerville.

Sleet.—Anderson, Greenville, Little Mountain, Saluda 31st; Newberry 30th, 31st; Walhalla 16th, 31st.

Snow.—(Melting as it fell.) Anderson, Barksdale, Clarks Hill, Due West, Gaffney, Greenville, Liberty, Little Mountain, Newberry, Spartanburg, Walhalla, Santuc, Winnsboro, Winthrop College, Yorkville 31st.

Excessive Precipitation.—Allendale, 2-3rd, 3.00 in 13 hrs.; Anderson, 3rd, 3.08 in 22 hrs.; Blackville, 2-3rd, 2.68 in 13 hrs.; Camden, 2-3rd, 2.78 in 12 hrs.; Chappels, 20-21st, 3.48 in 24 hrs.; Clarks Hill, 20th, 4.00 in 24 hrs.; Clemson College, 2-3rd, 4.11 in 18 hrs.; Due West, 2-3rd, 2.68 in 13 hrs.; and 20th, 2.68 in 24 hrs.; Georgetown, 8th, 3.50 in 24 hrs.; Greenville, 2-3rd, 3.25 in 23 hrs.; Liberty, 2-3rd, 4.20 in 20 hrs.; Newberry, 19th-20th, 3.32 in 24 hrs.; Enoree, 2-3rd, 3.06 in 14 hrs.; St. Matthews, 3rd, 3.00 in 24 hrs.; Santuc, 20-21st, 4.13 in 24 hrs.; Seivern, 3rd, 2.80 in 24 hrs.; Smiths Mills, 8-9th, 2.60 in 24 hrs.; Trenton, 20-21st, 2.90 in 24 hrs.; Winnsboro, 28th, 2.60 in 24 hrs.

**Winds.**

The prevailing direction of the wind was from the north-east at 26 stations, from the north at 9, from the northwest at 6, from the east and west at 5 each, and from the south-west at 1 station.

High Winds.—Barksdale 1st; Beaufort 20, 31st; Bowman 1, 10th; Charleston 8th; Columbia 21st; Liberty 1, 14, 15, 20, 21, 22, 29th; Newberry 1, 10, 29th; Seivern 9, 20, 29th; Summerville 20th; Yorkville 9th.

**Weather.**

The average number of clear days was 12, of partly cloudy ones 4, and of cloudy ones 15.

**BAROMETER AND WIND TABLE FOR DECEMBER, 1905.**

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                         |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity.       |
|                       |            |          |       |         |       |                 |                 | Miles. Direction. Date. |
| Augusta, Ga.....      | 30.15      | 30.66    | 1     | 29.78   | 20    | 5.323           | 7.2             | 26 ne. 8                |
| Charleston.....       | 30.11      | 30.63    | 5     | 29.68   | 6     | 9.079           | 12.2            | 48 ne. 8                |
| Charlotte, N. C.....  | 30.16      | 30.70    | 1     | 29.77   | 29    | 5.883           | 7.9             | 32 sw. 21               |
| Columbia.....         | 30.13      | 30.72    | 1     | 29.61   | 29    | 5.819           | 7.8             | 30 sw. 21               |
| Savannah, Ga.....     | 30.12      | 30.62    | 5     | 29.68   | 9     | 5.990           | 8.0             | 41 sw. 20               |
| Wilmington, N. C..... | 30.10      | 30.68    | 1     | 29.64   | 9     | 6.602           | 8.9             | 42 w. 21                |
| Averages.....         | 30.13      | 30.70    | 1     | 29.64   | 9     | 6.449           | 8.7             | 48 ne. 8                |

**MISCELLANEOUS PHENOMENA (with dates).**

Solar Halos.—Beaufort 26th; Charleston 1st; Stateburg 19, 22, 26th.

Lunar Halos.—Blackville 11th; Charleston 3, 30th; Columbia, Little Mountain 6th; Saluda 30th; Stateburg 6, 30th.

Thunderstorms.—Beaufort 20, 23rd; Seivern 21st; Stateburg 28th; Summerville 26th. Summarized, there were 5 thunderstorms on 4 dates as follows: 2 on the 20th, 1 each on the 21st, 23rd and 28th. In addition Charleston reported thunderstorms on the 20th and 23rd.

Dense Fogs.—Aiken, Blackville, Cheraw 23rd; Charleston 20, 23, 28th; Columbia 3, 18, 19, 23rd; Greenville, Newberry 19th; Liberty 17, 18, 21st; Society Hill 19, 23rd; Winthrop College 23, 29th; Yorkville 3, 23rd.

**PROGRESS OF FARM WORK.**

Although the mean temperature was below normal, there was no severe cold wave, and but little freezing or ice, conditions favorable for the germination of wheat, oats and rye that was sown late in November and during this month, but over the western half of the State the precipitation was excessive, and the ground kept continuously too wet for cultivation, so that seeding operations could not be finished. In the eastern half of the State, there was less rainfall and seeding operations were practically finished.

Small grains that were up grew slowly but attained good stands, and became promising.

There was less than the usual amount of plowing done in preparation for spring crops owing mainly to the wet condition of the soil.

Winter truck needed more moisture early in the month, but during the second half it was supplied in abundance, and truck improved but suffered somewhat from lack of sunshine.

Remaining small portions of the corn, cotton and other crops were gathered early in the month, thus completing harvesting operations for the year.



## DECEMBER WEATHER.

The temperatures during December are of a decided winter type, with occasionally minimum temperatures below zero, and with one exception, always below 20°. There is a marked uniformity in the mean of the daily maximum temperatures, and a wide range in the daily minimum ones.

The precipitation is fairly constant, but the current year was an exception and had nearly twice the normal amount, having been the wettest December of record. The prevailing winds are from the northwest.

## Temperature, Rainy Days and Wind.

| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|
| 1894 .. | 48.1       | 56.8      | 39.7      | 85            | -1           | 7           | nw.               |
| 1895 .. | 46.1       | 57.1      | 35.5      | 80            | 15           | 6           | nw.               |
| 1896 .. | 44.0       | 54.5      | 33.5      | 83            | 8            | 7           | ne.               |
| 1897 .. | 47.6       | 57.6      | 37.7      | 82            | 21           | 8           | ne.               |
| 1898 .. | 49.5       | 54.8      | 37.0      | 77            | 9            | 8           | nw.               |
| 1899 .. | 44.6       | 54.9      | 34.2      | 79            | 11           | 7           | nw.               |
| 1900 .. | 45.5       | 55.6      | 35.4      | 79            | 18           | 8           | n.                |
| 1901 .. | 44.0       | 54.4      | 33.5      | 80            | 2            | 11          | n.                |
| 1902 .. | 46.8       | 56.6      | 37.1      | 85            | 10           | 7           | nw.               |
| 1903 .. | 41.0       | 52.5      | 29.4      | 72            | 10           | 6           | w.                |
| 1904 .. | 45.5       | 54.9      | 36.1      | 78            | 16           | 9           | w.                |
| 1905 .. | 45.2       | 54.7      | 35.8      | 77            | 16           | 10          | ne.               |

## Precipitation.

| Year.    | State Average. | Greatest Monthly. | Place.         | Least Monthly. | Place.         |
|----------|----------------|-------------------|----------------|----------------|----------------|
| 1894.... | 2.56           | 6.37              | Central.       | 0.43           | Hardeeville.   |
| 1895.... | 3.04           | 6.55              | Holland.       | 1.25           | Central.       |
| 1896.... | 3.55           | 6.46              | St. George.    | 0.55           | Walhalla.      |
| 1897.... | 2.40           | 4.11              | Walhalla.      | 1.10           | Georgetown.    |
| 1898.... | 2.84           | 6.52              | Gillisonville. | 1.02           | Cheraw.        |
| 1899.... | 2.33           | 4.05              | Batesburg.     | 0.85           | Charleston.    |
| 1900.... | 5.64           | 8.15              | Efingham.      | 3.65           | Batesburg.     |
| 1901.... | 5.01           | 10.23             | Spartanburg.   | 1.28           | Gillisonville. |
| 1902.... | 4.26           | 6.80              | Conway.        | 1.92           | Bennettsville. |
| 1903.... | 1.95           | 3.84              | Smiths Mills.  | 0.57           | Barksdale.     |
| 1904.... | 2.97           | 4.90              | Greenville.    | 1.08           | Charleston.    |
| 1905.... | 7.25           | 11.18             | Chappels.      | 3.18           | Kingstree.     |

## CROP YIELDS AND WORTH, 1905.

In the December, 1905, Supplement of the "Crop Reporter", issued by the U. S. Department of Agriculture, are several tables giving the acreage, yield per acre, total production and farm value of the leading cereal, forage and some miscellaneous crops of the United States. The data are given by States, and it is believed that the importance of such knowledge and information to crop correspondents of this service, to aid them in making their weekly reports on conditions during the growing season, warrants re-printing the data in so far as crops grown in South Carolina are shown. In the tables, and in this article, cotton is omitted, as are the data for sweet potatoes, fruits, melons, berries and vegetable truck, which, if their value was known, would increase the farm value of all crops raised many fold over the figures herein given.

The figures are for the year 1905, and are approximately correct, and it is safe to say, as nearly so as it is possible to make them without a farm to farm canvass.

Of the crops given, corn is the leading staple crop in this State, with an acreage of 1,878,978, a yield of 10.9 bushels per acre, a total production of 20,480,860 bushels, worth \$15,155,836. It is perhaps worthy of note that Florida is the only State that had a smaller yield per acre and also that the average yield per acre for the United States was 28.8 bushels. The winter wheat acreage was 318,419, with an average yield of 6.1 bushels per acre, total production of 1,942,356 bushels, worth \$2,156,015. The acreage of oats

harvested was only 187,509, giving a yield of 16.3 bushels per acre, a total production of 3,056,397 bushels, worth \$1,681,018. The average yield per acre of oats for the United States was 34.0 bushels. The rye crop was a small one, there having been only 4,226 acres harvested, yielding 8.1 bushels per acre, a total production of 34,231 bushels, worth \$40,735. The rice crop included 15,477 acres, yielding 26 bushels of rough rice per acre, making the total production of rough rice 402,402 bushels, worth \$426,456. There were 9,250 acres planted to Irish potatoes, that yielded 83 bushels per acre, giving a total production of 767,750 bushels, worth \$790,782. There were 59,492 acres of grass cut for hay, yielding 1.42 tons per acre, a total yield of 84,492 tons, worth \$1,128,639. The tobacco acreage is given at the low figures of 12,574 acres, yielding 736 pounds per acre, making the total production 9,254,464 pounds, worth \$805,138.

A further study of the original tables shows that none of the crops enumerated had a yield per acre equal to, or above, the average for the same crop for the entire United States.

## REMARKS BY OBSERVERS.

AIKEN.—The month about 4° colder than usual, and was very wet, the rainfall having been nearly double the usual amount. BARKSDALE.—Snow fell for two hours on the 31st, but it soon melted. BATESBURG.—Small grains are up to good stands and look promising. BEAUFORT.—The mean temperature was 2.7° below normal, and the precipitation was 3.36 inches in excess. Frequent rains interfered very much with farm work, and some oats not yet sown. BOWMAN.—December was remarkable for its cloudy and rainy weather. Early sown grains look healthy and are growing nicely. Streams that were previously dry now have their usual flow of water. DILLON.—The month was an unusually wet one. GREENVILLE.—There was a trace of sleet on the 31st, which soon turned to snow, and the snow melted as it fell. HEATH SPRINGS.—Nearly normal temperature and excessive precipitation during December. Small grains did well. LIBERTY.—No plowing was done during the month which was unusually cloudy and wet. Small grain crops seem to be doing fairly well. Seeding has not been finished owing to the wet condition of the ground. NEWBERRY.—Cotton picking was finished and small grains sown. More than the usual amount of winter plowing was done. PINOPOLIS.—On the 20th there was a high wind accompanied by a marked and sudden rise in temperature. SANTUC.—It was a very wet month. There were a few heavy frosts, although the average temperature was below normal due to much cloudiness. The ground is saturated. SPARTANBURG.—The first snow of the season fell from 7:40 to 9 a. m. on the 31st, with another snow storm from 9:10 to 11 a. m. The snow melted as it fell. STATEBURG.—There were no very low temperatures during the month, but there was an excess in precipitation and much cloudiness, conditions very unfavorable for out door work, consequently but little farm work was accomplished. SUMMERVILLE.—There was a slight earthquake tremor at 11:15 p. m. on the 27th. TRENTON.—Precipitation was 5.30 inches more than the normal for December, and is 10.45 inches less than the normal for the year 1905.



## CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER, 1905.

| STATIONS.                                 | Counties.         | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                            | Sky.               |                    |                            |                     | Observers.                  |
|---|-------------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|---------------------|-----------------------------|
|   |                   |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. |                             |
| Aiken.....                                | Aiken.....        | 565             | 21                      | 44.7                               | -4.0                       | 69       | 22    | 24      | 5     | 34                       | 8.10   | +1.98                      | 2.00                  | 0                          | 10                 | 20                 | 7                          | 4                   | ne. C. F. McGahan, M. D.    |
| Allendale.....                            | Barnwell.....     | 186             | 17                      | 50.6                               | +4.5                       | 73       | *2    | 28      | 5     | 32                       | 7.49   | +5.27                      | 3.00                  | T.                         | 7                  | 15                 | 0                          | 16                  | C. A. Glover.               |
| Anderson.....                             | Anderson.....     | 764             | 4                       | 42.8                               | -1.2                       | 66       | 22    | 20      | 5     | 33                       | 7.93   | +4.93                      | 3.08                  | 0                          | 11                 | 10                 | 6                          | 15                  | H. H. Russell.              |
| Augusta, Ga.....                          | Richmond.....     | 134             | 34                      | 45.4                               | -2.3                       | 69       | 23    | 26      | 5     | 31                       | 8.08   | +4.67                      | 2.31                  | 0                          | 13                 | 8                  | 8                          | 15                  | Weather Bureau.             |
| Barksdale.....                            | Laurens.....      | 780             | 4                       | 38.2                               | -2.7                       | 58       | 7     | 22      | *5    | 27                       | .....  | .....                      | 1.70                  | 0.1                        | 11                 | 5                  | 9                          | n.                  | J. T. Garrett.              |
| Batesburg.....                            | Lexington.....    | 656             | 17                      | 43.2                               | -3.2                       | 70       | 22    | 22      | 5     | 34                       | 6.92   | +4.47                      | 2.23                  | 0                          | 11                 | 14                 | 3                          | 14                  | E. J. Hite.                 |
| Beaufort.....                             | Beaufort.....     | 28              | 19                      | 49.6                               | -2.7                       | 71       | *22   | 28      | 5     | 27                       | 5.77   | +3.36                      | 1.61                  | 0                          | 15                 | 9                  | 4                          | 18                  | ne. S. M. Benton.           |
| Bennettsville.....                        | Marlboro.....     | .....           | 4                       | 44.8                               | .....                      | 70       | *22   | 22      | *6    | 35                       | 6.44   | .....                      | 1.80                  | 0                          | 11                 | 15                 | 5                          | 11                  | n. C. S. McCall.            |
| Blackville.....                           | Barnwell.....     | 296             | 17                      | 45.4                               | -1.5                       | 72       | 22    | 25      | 5     | 35                       | 7.38   | +3.77                      | 2.68                  | 0                          | 13                 | 14                 | 8                          | 9                   | ne. G. D. C. Lange.         |
| Bluffs.....                               | Fairfield.....    | 293             | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 7.30   | .....                      | 1.70                  | 0                          | 10                 | 10                 | 7                          | 14                  | nw. T. S. McMeekin.         |
| Bowman.....                               | Orangeburg.....   | 160             | 4                       | 45.4                               | .....                      | 74       | 23    | 24      | 5     | 35                       | 7.15   | .....                      | 2.10                  | 0                          | 11                 | 12                 | 5                          | 14                  | w. B. O. Evans.             |
| Calhoun Falls.....                        | Abbeville.....    | 508             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 5.45   | +1.81                      | 1.80                  | 0                          | 7                  | 15                 | 0                          | 16                  | ne. P. J. Pfeiffer.         |
| Canden.....                               | Kershaw.....      | 222             | 39                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 7.78   | +4.63                      | 2.78                  | 0                          | 9                  | 15                 | 2                          | 14                  | ne. J. C. Whitaker.         |
| Chapin.....                               | Newberry.....     | 402             | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 11.18  | .....                      | 2.94                  | 0                          | 8                  | 11                 | 4                          | 16                  | e. W. F. Glenn.             |
| Charleston.....                           | Charleston.....   | 48              | 36                      | 49.6                               | -1.9                       | 69       | 20    | 30      | 5     | 24                       | 4.24   | +1.00                      | 0.87                  | 0                          | 13                 | 9                  | 1                          | 21                  | n. Weather Bureau.          |
| Charlotte, N. C.....                      | Mecklenburg.....  | 808             | 27                      | 40.9                               | -2.7                       | 62       | 22    | 23      | 5     | 30                       | 6.56   | +2.64                      | 2.38                  | 0.3                        | 13                 | 9                  | 7                          | 15                  | ne. Weather Bureau.         |
| Choraw (1).....                           | Chesterfield..... | 144             | 17                      | 42.6                               | -1.9                       | 71       | 22    | 21      | 6     | 37                       | 7.52   | +4.92                      | 2.00                  | 0                          | 12                 | 8                  | 6                          | 17                  | n. W. R. Godfrey.           |
| Choraw (2).....                           | Edgefield.....    | 144             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 7.78   | +4.66                      | 2.01                  | 0                          | 13                 | 11                 | 6                          | 14                  | n. Jno. H. Powe.            |
| Clarks Hill.....                          | Oconee.....       | 456             | 3                       | 45.2                               | .....                      | 73       | 2     | 22      | 5     | 38                       | 9.82   | .....                      | 4.00                  | T.                         | 6                  | 18                 | 2                          | 9                   | ..... Wm. S. Middleton.     |
| Clemson College.....                      | Richland.....     | 850             | 14                      | 44.4                               | +1.9                       | 69       | 23    | 19      | *5    | 35                       | 10.09  | +6.55                      | 4.11                  | 0                          | 9                  | 16                 | 3                          | 12                  | ne. Jno. N. Hook.           |
| Columbia.....                             | Horry.....        | 351             | 18                      | 44.6                               | -3.1                       | 68       | 23    | 25      | 5     | 31                       | 7.34   | +4.40                      | 2.33                  | 0                          | 11                 | 7                  | 9                          | 15                  | ne. Central Office.         |
| Conway.....                               | Darlington.....   | 25              | 14                      | 46.6                               | .....                      | 74       | 24    | 25      | *5    | 39                       | 5.13   | +2.57                      | 1.80                  | 0                          | 9                  | 14                 | 0                          | 17                  | nw. Miss M. G. Quattlebaum. |
| Darlington.....                           | Marion.....       | 175             | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | 0                          | .....              | .....              | .....                      | .....               | Miss F. G. McIver.          |
| Dillon.....                               | Abbeville.....    | 100             | 1                       | 44.2                               | .....                      | 71       | 23    | 23      | 6     | 34                       | 6.27   | .....                      | 1.40                  | 0                          | 14                 | .....              | .....                      | .....               | A. E. Rowell.               |
| Due West.....                             | Bamberg.....      | 710             | 4                       | 44.3                               | .....                      | 65       | 22    | 24      | 5     | 31                       | 8.87   | .....                      | 2.68                  | T.                         | 10                 | 11                 | 5                          | 15                  | w. Rev. O. Y. Bonner.       |
| Edisto.....                               | Florence.....     | 127             | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.40   | +3.33                      | 1.83                  | 0                          | 7                  | 11                 | 5                          | 15                  | nw. Mrs. M. Thompson.       |
| Ellenham.....                             | Spartanburg.....  | 106             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 5.15   | +1.94                      | 0.95                  | 0                          | 7                  | 16                 | 0                          | 15                  | ne. H. B. McCall.           |
| Enoree.....                               | Florence.....     | 987             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 9.00   | .....                      | 2.40                  | 0                          | 7                  | 12                 | 0                          | 19                  | sw. E. P. Porter.           |
| Florance.....                             | Cherokee.....     | 136             | 17                      | 44.8                               | +1.2                       | 69       | 3     | 29      | *5    | 37                       | 4.02   | +1.56                      | 1.40                  | 0                          | 7                  | 10                 | 2                          | 19                  | ne. H. K. Gilbert.          |
| Georgetown.....                           | Georgetown.....   | 893             | 9                       | 42.9                               | .....                      | 70       | 7     | 17      | 6     | 49                       | 5.96   | +2.40                      | 1.90                  | T.                         | 10                 | 12                 | 6                          | 13                  | n. B. F. Camp.              |
| Greenville.....                           | Greenville.....   | 12              | 12                      | 49.4                               | +0.7                       | 71       | 24    | 26      | 4     | 35                       | 8.90   | +5.58                      | 3.50                  | 0                          | 12                 | 1                  | 11                         | 19                  | ne. Reid Whitford.          |
| Greenville.....                           | Greenville.....   | 989             | 13                      | 38.0                               | -3.5                       | 66       | 23    | 16      | *5    | 43                       | 8.85   | +5.65                      | 3.25                  | T.                         | 12                 | 12                 | 2                          | 17                  | nw. Mrs. S. A. Crittenden.  |
| Greenwood.....                            | Greenwood.....    | 671             | 17                      | 41.0                               | -1.7                       | 64       | *22   | 22      | *5    | 34                       | 9.27   | +6.03                      | 2.40                  | 0                          | 6                  | 17                 | 0                          | 14                  | w. M. M. Calhoun.           |
| Heath Springs.....                        | Lancaster.....    | 568             | 4                       | 42.1                               | .....                      | 64       | 22    | 23      | 5     | 28                       | 7.83   | .....                      | 1.65                  | 0                          | 10                 | 16                 | 5                          | 10                  | ne. J. A. Weaver.           |
| Kingstree (1).....                        | Williamsburg..... | 54              | 17                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | 0                          | .....              | .....              | .....                      | .....               | J. A. Scott.                |
| Kingstree (2).....                        | Pickens.....      | 54              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.18   | -0.13                      | 1.10                  | 0                          | 5                  | 14                 | 1                          | 16                  | ne. A. O. Matthews.         |
| Liberty.....                              | Newberry.....     | 900             | 11                      | 41.8                               | -0.8                       | 63       | 23    | 18      | 5     | 34                       | 9.49   | +6.08                      | 4.20                  | T.                         | 6                  | 15                 | 6                          | 10                  | e. Jno. T. Boggs.           |
| Little Mountain.....                      | Kershaw.....      | 711             | 12                      | 42.8                               | -4.1                       | 68       | *22   | 21      | *5    | 31                       | 7.15   | +4.17                      | 2.12                  | T.                         | 11                 | 8                  | 10                         | 13                  | ne. John M. Sease, M. D.    |
| Lugoff.....                               | Newberry.....     | 168             | 4                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....               | W. J. Burdell, M. D.        |
| Newberry.....                             | Anderson.....     | 502             | 1                       | 42.4                               | -3.8                       | 68       | 22    | 21      | 6     | 32                       | 9.04   | +5.80                      | 3.32                  | 0.2                        | 15                 | 7                  | 9                          | 15                  | ne. W. G. Peterson.         |
| Pelzer.....                               | Berkeley.....     | 873             | 0                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 8.87   | .....                      | 3.06                  | 0                          | 11                 | 13                 | 2                          | 16                  | w. John M. Ward.            |
| Pinopolis.....                            | Dorchester.....   | 54              | 12                      | 46.4                               | -1.4                       | 70       | 23    | 28      | *5    | 29                       | 5.29   | +2.05                      | 1.20                  | J                          | 12                 | 8                  | 6                          | 17                  | ne. E. P. Ravenel.          |
| St. Georges.....                          | Dorchester.....   | 109             | 17                      | 45.6                               | -1.8                       | 72       | 23    | 22      | 6     | 37                       | 3.20   | -0.26                      | 1.00                  | 0                          | 9                  | 13                 | 0                          | 18                  | ne. W. B. Rayser.           |
| St. Matthew.....                          | Orangeburg.....   | 269             | 17                      | 45.0                               | -2.1                       | 68       | *22   | 26      | *5    | 34                       | 7.56   | +4.63                      | 3.00                  | 0                          | 10                 | 16                 | 0                          | 15                  | ne. J. S. Wannamaker.       |
| St. Stephen.....                          | Berkeley.....     | 73              | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 5.24   | +1.93                      | 1.92                  | 0                          | 12                 | 9                  | 3                          | 19                  | n. C. T. Shuler.            |
| Saluda.....                               | Union.....        | 536             | 4                       | 43.8                               | .....                      | 66       | *22   | 20      | 6     | 32                       | 7.71   | .....                      | 2.00                  | 0                          | 11                 | 17                 | 1                          | 13                  | n. Alvin Etheridge.         |
| Santee.....                               | Chatham.....      | 512             | 12                      | 41.8                               | -1.7                       | 66       | 22    | 19      | 6     | 34                       | 9.93   | +6.74                      | 3.53                  | 0.5                        | 11                 | 11                 | 5                          | 15                  | ne. E. W. Jeter.            |
| Savannah, Ga.....                         | Aiken.....        | 71              | 36                      | 49.6                               | -2.8                       | 75       | 23    | 29      | 5     | 27                       | 5.24   | +2.03                      | 1.39                  | 0                          | 14                 | 9                  | 2                          | 20                  | n. Weather Bureau.          |
| Seivern.....                              | Williamsburg..... | 482             | 4                       | 43.0                               | -4.3                       | 70       | *22   | 17      | 6     | 41                       | 7.65   | +4.46                      | 2.80                  | 0                          | 12                 | 13                 | 4                          | 14                  | ne. Geo. C. Gunter.         |
| Smiths Mills.....                         | Darlington.....   | 62              | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.22   | -2.03                      | 2.60                  | 0                          | 9                  | 14                 | 0                          | 17                  | e. H. van Keuren.           |
| Society Hill.....                         | Spartanburg.....  | 192             | 14                      | 41.5                               | -4.2                       | 68       | 23    | 23      | 5     | 28                       | 7.52   | +4.74                      | 1.70                  | 0                          | 9                  | 10                 | 7                          | 14                  | ne. J. J. Lucas.            |
| Spartanburg.....                          | Sumter.....       | 875             | 14                      | 39.8                               | -3.8                       | 62       | 23    | 20      | 5     | 36                       | 8.07   | +5.49                      | 2.30                  | T.                         | 11                 | 11                 | 2                          | 17                  | ..... F. P. Robinson.       |
| Stateburg.....                            | Dorchester.....   | 500             | 28                      | 45.6                               | -1.8                       | 69       | *22   | 24      | 5     | 32                       | 7.50   | +4.52                      | 2.43                  | 0                          | 11                 | 7                  | 6                          | 18                  | ne. W. W. Anderson, M. D.   |
| Summerville.....                          | Sumter.....       | 75              | 8                       | 48.3                               | -0.5                       | 75       | 23    | 25      | 5     | 36                       | 6.00   | +1.98                      | 1.05                  | 0                          | 15                 | 10                 | 3                          | 18                  | ne. Miss E. H. Gadsden.     |
| Sumter.....                               | Edgefield.....    | 169             | 4                       | 46.2                               | .....                      | 71       | *22   | 23      | 6     | 39                       | 7.06   | .....                      | 2.00                  | 0                          | 12                 | 9                  | 7                          | 15                  | ne. H. A. Moses.            |
| Trenton.....                              | Berkeley.....     | 620             | 12                      | 44.6                               | -3.6                       | 68       | 24    | 23      | 5     | 39                       | 8.63   | +5.30                      | 2.90                  | 0                          | 10                 | 9                  | 10                         | 12                  | w. C. A. Long.              |
| Trial.....                                | Oconee.....       | 85              | 19                      | 46.7                               | -1.9                       | 75       | 23    | 26      | *5    | 36                       | 4.60   | +1.57                      | 0.81                  | 0                          | 12                 | 11                 | 8                          | 12                  | nw. Etsell Gaillard.        |
| Walhalla.....                             | Colleton.....     | 1061            | 14                      | 42.0                               | -2.3                       | 64       | 23    | 17      | 5     | 38                       | 9.78   | +6.80                      | 2.25                  | T.                         | 12                 | 14                 | 9                          | 8                   | n. Miss L. E. Isbell.       |
| Walterboro.....                           | New Hanover.....  | 69              | 2                       | 48.0                               | .....                      | 77       | 23    | 25      | 5     | 39                       | 4.76   | .....                      | 1.03                  | 0                          | 11                 | 14                 | 3                          | 14                  | nw. J. A. Westerberg.       |
| Wilmington, N. C.....                     | Fairfield.....    | 52              | 36                      | 47.4                               | -0.9                       | 74       | 23    | 26      | 5     | 29                       | 5.51   | +2.53                      | 1.46                  | 0                          | 12                 | 10                 | 7                          | 14                  | ne. Weather Bureau.         |
| Winnboro.....                             | York.....         | 515             | 16                      | 42.2                               | -4.5                       | 58       | *11   | 20      | 5     | 28                       | 7.05   | +4.25                      | 2.60                  | T.                         | 8                  | 16                 | 8                          | 7                   | ne. John W. Seigler.        |
| Winthrop College.....                     | York.....         | 690             | 6                       | 41.9                               | -4.5                       | 64       | *22   | 21      | *6    | 32                       | 8.35   | +5.51                      | 2.10                  | 0.8                        | 13                 | 14                 | 6                          | 11                  | ne. E. R. Rivers.           |
| Yemassee.....                             | Beaufort.....     | 23              | 10                      | 45.4                               | -2.7                       | 74       | 23    | 26      | 5     | 34                       | 5.43   | +1.83                      | 0.97                  | 0                          | 13                 | 14                 | 0                          | 17                  | ..... J. G. Hutson.         |
| Yorkville.....                            | York.....         | 680             | 17                      | 43.7                               | -2.4                       | 64       | *22   | 23      | 5     | 32                       | 8.87   | +5.89                      | 2.32                  | 2.0                        | 11                 | 8                  | 8                          | 15                  | ne. J. R. Schorb.           |
| MEANS—highest, lowest and dates, etc..... |                   |                 |                         | 45.2                               | -2.1                       | 77       | 23    | 16      | 5*    | 49                       | 7.25   | +3.96                      | 4.20                  | 0.1                        | 10                 | 12                 | 4                          | 15                  | ne. ....                    |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.    ¶ Maximum thermometer not standard.    † Minimum thermometer not standard.  
§ Exposed not standard.    \* On other dates also    a indicates 1 day missing, b, 2 days, etc.



### STATIONS.

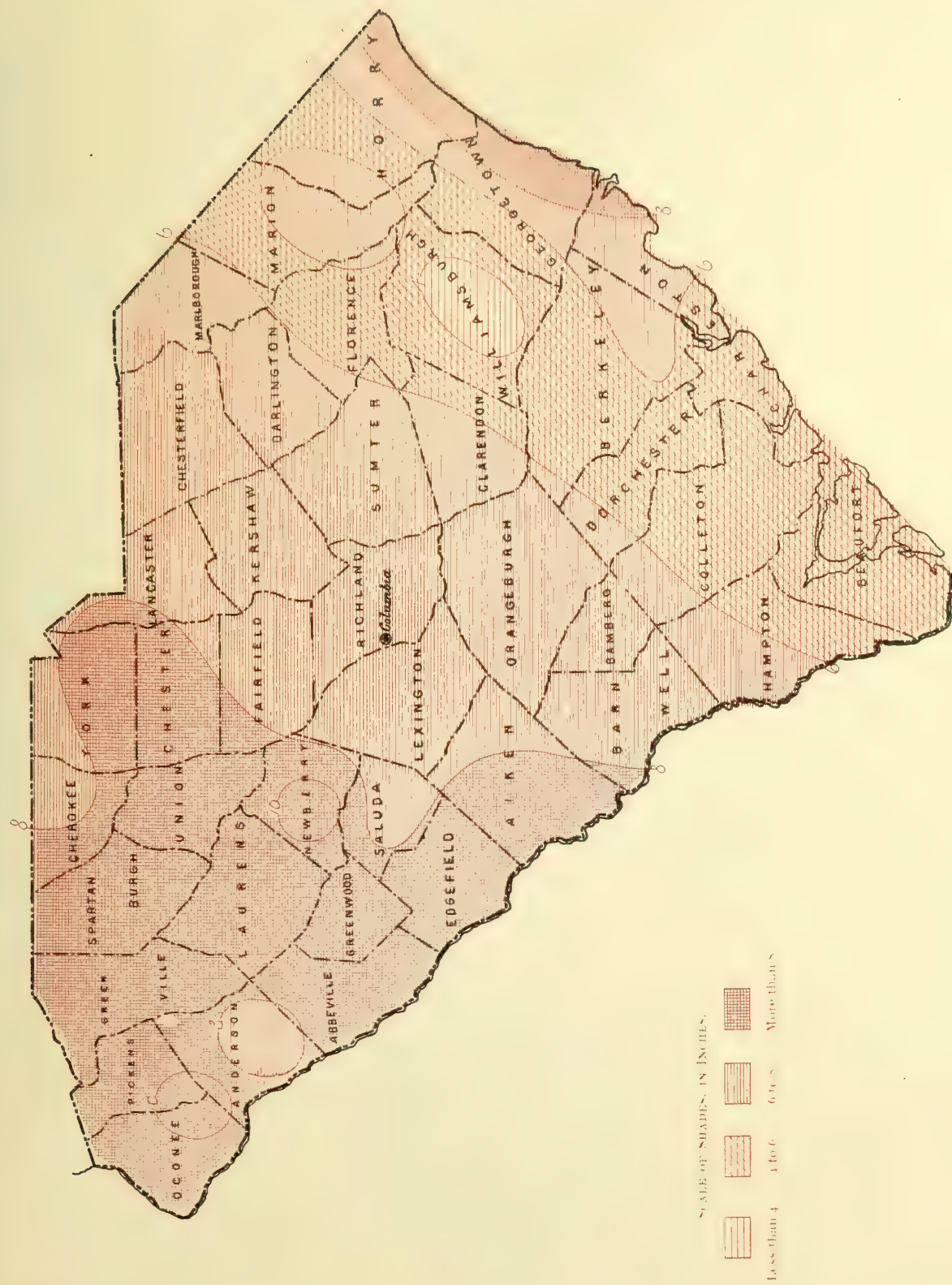
\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.

† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.



TOTAL PRECIPITATION FOR DECEMBER, 1905.



DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1905.

| STATIONS.        | Day of Month. |      |      |     |   |    |     |      |      |      |     |    |     |      |      |     |      |    |     |      |      |      |     |     |     |     |     |      |      |      |      | Total. |      |
|------------------|---------------|------|------|-----|---|----|-----|------|------|------|-----|----|-----|------|------|-----|------|----|-----|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|--------|------|
|                  | 1             | 2    | 3    | 4   | 5 | 6  | 7   | 8    | 9    | 10   | 11  | 12 | 13  | 14   | 15   | 16  | 17   | 18 | 19  | 20   | 21   | 22   | 23  | 24  | 25  | 26  | 27  | 28   | 29   | 30   | 31   |        |      |
| Aiken            |               |      | 2.00 |     |   |    |     | .60  | 1.00 |      |     |    |     | .65  | .35  |     |      |    |     | 1.30 | .60  |      |     | .30 |     |     |     | .95  |      |      | .35  | 8.10   |      |
| Allendale        |               |      | 3.00 |     |   |    |     |      | 1.00 |      |     |    |     |      |      |     | 1.14 |    |     |      | 1.05 |      |     |     |     |     |     | .60  | .50  |      | .20  | 7.49   |      |
| Anderson         |               |      | 3.08 |     |   |    |     | .38  | 1.19 |      |     |    |     | .26  | .23  | .02 |      |    |     | 1.66 | .21  |      | .15 |     |     |     |     | .66  |      |      | .09  | 7.93   |      |
| Augusta, Ga.     | 1.36          |      | .95  |     |   |    | .01 | .68  | .77  |      |     |    |     |      |      |     |      |    |     | 1.94 |      |      | .01 | .05 |     |     |     | .11  | .95  |      | .35  | 8.08   |      |
| Barksdale        | T.            | 1.70 |      |     |   |    |     | .70  | 1.10 |      |     |    | .40 | T.   | T.   |     |      |    |     |      |      |      |     |     |     |     |     | .90  |      |      | .10  |        |      |
| Batesburg        |               | 2.23 |      |     |   |    |     | .03  | .37  | .21  |     |    |     | .16  | .73  | .07 |      |    |     | .09  | 1.98 |      |     |     |     |     | .09 |      | .96  |      |      | 6.92   |      |
| Beaufort         |               | .21  | .50  |     |   |    | .08 | .97  | .04  |      |     |    |     | 1.61 | .20  |     | T.   |    | .02 |      | .20  | .60  |     | .60 | .03 |     | .48 | .17  | .07  |      | .19  | 5.77   |      |
| Bennettsville    |               | 1.80 |      |     |   |    |     | .03  | 1.16 |      |     |    |     | .41  | .32  |     |      |    |     |      | .22  | .68  |     |     |     |     | .14 | 1.15 | .21  |      | .32  | 6.44   |      |
| Blackville       |               | 2.68 | .01  |     |   |    |     |      | .80  | .05  |     |    |     | .37  | .67  |     |      |    |     |      | .13  | 1.41 |     |     | .14 |     | .50 | .01  | .56  |      | .05  | 7.38   |      |
| Blairs           |               | 1.64 |      |     |   |    |     |      | 1.00 | .04  |     |    |     | .08  | .80  |     | T.   |    |     | 1.70 | .80  |      |     |     |     |     | .10 |      | .74  |      | .40  | 7.30   |      |
| Bowman           | T.            | 1.55 |      |     |   |    |     | .20  | .22  |      |     |    |     | .65  | .62  | T.  |      |    |     | 2.10 |      |      | .05 |     |     |     | .90 | .48  | .12  |      | .26  | 7.15   |      |
| Calhoun Falls    |               | 1.89 |      |     |   |    |     |      |      |      |     |    |     |      | .96  |     |      |    |     | .36  | .98  | .24  |     |     |     |     | .16 | .86  |      |      |      | 5.45   |      |
| Camden           |               | 2.78 |      |     |   |    |     |      | .45  | .15  |     |    |     | .10  | .85  |     |      |    |     | T.   | 1.50 |      |     |     |     |     |     | .35  |      |      | .25  | 7.78   |      |
| Chappells        |               | 1.70 |      |     |   |    |     | T.   | 2.90 |      |     |    |     | .02  | .24  |     |      |    |     | .54  | 2.94 |      | T.  | T.  |     |     |     | T.   | T.   | .94  | 1.90 | 11.18  |      |
| Charleston       |               | .04  | .59  |     |   |    |     |      | .66  | .05  |     |    |     | .82  | .06  |     |      |    | T.  | .51  | .02  |      | .75 | .04 |     | T.  | .36 | .34  |      |      | .20  | 4.24   |      |
| Charlotte, N. C. | .52           | 1.26 |      |     |   |    |     | .39  | .48  |      |     |    | T.  | .27  | .21  | .03 |      |    | T.  | 2.38 |      |      | .02 | .02 |     |     |     | .02  | .65  | .01  |      | 6.56   |      |
| Cheraw(1)        |               | 2.00 |      | .01 |   |    |     |      | 1.57 | .29  |     |    |     | .05  | 1.10 | .05 | .03  |    |     |      | 1.06 |      |     |     | .04 |     | .09 |      | 1.23 |      | T.   | 7.52   |      |
| Cheraw(2)        |               | 2.01 | .04  |     |   |    |     | 1.64 | .27  |      |     |    | T.  | .06  | 1.24 | .05 | .02  |    |     | .02  | 1.09 |      | T.  | T.  |     |     | .10 | .01  | 1.23 |      | T.   | 7.78   |      |
| Clark's Hill     | 1.62          |      |      |     |   |    |     | 1.54 |      |      |     |    |     |      | .96  |     |      |    |     |      |      |      |     |     |     | .95 |     |      |      |      |      | .75    | 9.82 |
| Clemson College  |               | 4.11 |      |     |   |    |     | .63  | 1.60 |      |     |    |     |      | .83  | .03 |      |    |     | 4.00 |      |      |     |     |     |     |     |      | .85  |      |      | 10.09  |      |
| Columbia         | .49           | 1.84 |      |     |   |    |     | .50  | .32  |      |     |    |     | .85  | .12  | T.  |      |    |     | 1.26 | .56  |      | .22 |     |     |     | .15 | .68  |      |      | .36  | 7.34   |      |
| Conway           |               | .70  | T.   |     |   |    |     |      | 1.20 | .10  |     |    |     |      | 1.80 | T.  |      |    |     | .05  | .35  |      |     | .15 | .13 |     |     | T.   | T.   | .65  |      | 5.13   |      |
| Darlington       |               |      |      |     |   |    |     |      |      |      |     |    |     |      |      |     |      |    |     |      |      |      |     |     |     |     |     |      |      |      |      |        |      |
| Dillon           |               | 1.15 |      |     |   |    | T.  | .20  | 1.40 | .02  |     |    |     | .76  | .33  | .04 |      |    |     | .29  | .89  |      | .04 |     |     |     | .21 | .47  | .10  |      | .37  | 6.27   |      |
| Due West         |               | 2.17 |      |     |   |    |     | .35  | 1.24 |      |     |    |     | .43  | .38  |     |      |    |     | 2.68 | .22  | .37  |     |     |     |     |     | .86  |      |      | .22  | 8.87   |      |
| Edisto           |               | 1.83 |      |     |   |    |     |      | .25  |      |     |    |     | .54  | 1.22 |     |      |    |     | 1.33 |      |      |     |     |     |     |     | .70  | .53  | T.   |      | 6.40   |      |
| Ellingham        |               | .90  |      |     |   |    |     |      |      | .25  |     |    |     |      | .95  |     |      |    |     |      | .95  |      |     |     |     |     | .40 |      | .75  |      |      | 5.15   |      |
| Enoree           |               | 2.00 |      |     |   |    |     |      | 1.90 |      |     |    |     |      |      |     |      |    | .80 | 2.40 |      |      |     |     |     |     |     |      |      |      |      | 9.00   |      |
| Florence         |               | .34  |      |     |   |    |     |      | .08  | 1.90 | .30 |    |     |      | 1.40 | .20 |      |    |     | .12  | .76  |      |     |     |     | .30 |     | .90  |      |      |      | 4.02   |      |
| Gaffney          |               |      |      |     |   |    |     |      | .10  | 3.50 | .10 |    |     |      | .02  | .72 | .10  |    |     |      | .30  | .98  | .06 |     |     |     | .50 |      | .60  |      |      | T.     | 5.96 |
| Georgetown       |               | .70  | .50  |     |   |    |     |      | 1.15 | 1.64 | .09 |    |     | 1.70 | T.   | .62 | .05  | T. |     | .10  | .68  |      | .10 |     |     |     | .50 |      | .80  |      |      | T.     | 8.90 |
| Greenville       |               | 3.25 | .01  |     |   |    |     | .15  | 1.64 |      | .09 |    |     |      | .62  |     |      |    |     | .40  | 1.63 |      | .20 | .09 |     |     |     |      | .72  |      | T.   | 8.85   |      |
| Greenwood        |               | 2.25 |      |     |   |    |     |      | 1.85 |      |     |    |     |      | .72  |     |      |    |     | .96  | 2.40 |      |     |     |     |     |     |      |      | 1.09 |      |        | 9.27 |
| Heath Springs    |               | 1.50 | 1.05 |     |   |    |     | .40  | .58  |      |     |    |     |      | .64  | .41 |      |    |     | 1.65 |      |      |     |     |     |     | .10 | 1.07 |      |      |      | .43    | 7.83 |
| Kingstree(1)     |               |      |      |     |   |    |     |      |      | .64  |     | T. |     |      | 1.10 |     |      |    |     | .19  |      |      |     |     |     |     | .90 | T.   | .35  |      |      | 3.18   |      |
| Kingstree(2)     |               |      |      |     |   |    |     |      | 2.10 |      |     |    |     |      | .54  |     |      |    |     | 1.65 |      |      | .25 |     |     |     |     | .75  |      |      | T.   | 9.49   |      |
| Liberty          |               | 4.20 |      |     |   |    |     |      | .50  | .50  |     |    |     | .45  | .32  |     |      |    |     | 2.10 |      |      | .03 |     |     |     | .11 | .56  |      |      |      | .42    | 7.15 |
| Little Mountain  |               | .04  | 2.12 |     |   |    |     |      |      |      |     |    |     |      |      |     |      |    |     |      |      |      |     |     |     |     |     |      |      |      |      |        |      |
| Lugoff           |               |      |      |     |   |    |     |      |      |      |     |    |     |      |      |     |      |    |     |      |      |      |     |     |     |     |     |      |      |      |      |        |      |
| Newberry         |               | 2.00 |      |     |   |    | .05 | 1.28 | .03  |      |     |    | .08 | .67  | .01  | .01 |      |    |     | .32  | .32  |      | .07 |     |     | .10 |     | .70  |      | .15  | .25  | 9.04   |      |
| Pelzer           |               | 3.06 |      |     |   |    |     | .04  | 1.62 | .16  |     |    |     | .08  | .56  |     |      |    |     | .80  | 1.62 |      | .04 | .15 |     |     |     |      | .74  |      |      | T.     | 8.87 |
| Pinopolis        |               | .40  | 1.04 |     |   |    | .04 |      |      |      |     |    |     | 1.20 | .30  |     |      |    |     | .06  | .54  |      |     |     |     |     |     | .61  | .48  |      | .15  | .25    | 5.29 |
| St. Georges      |               | .25  |      |     |   |    |     |      | .25  |      |     |    |     | .20  |      |     |      |    |     |      | .25  | 1.00 |     |     |     |     |     | .25  | .50  | T.   |      | .25    | 3.20 |
| St. Matthew      |               | 3.00 |      |     |   |    |     | .38  | T.   |      |     |    |     | .28  | .90  | .08 | .15  |    |     |      | .07  | 1.50 | T.  |     |     |     |     | .70  |      | .50  |      |        | 7.56 |
| St. Stephen      |               | 1.92 |      |     |   |    |     |      | .50  | .10  |     |    |     | 1.20 | .02  |     |      |    |     |      | .05  | .28  |     | .10 | .17 |     |     | .38  | .02  | .50  |      |        | 5.24 |
| Saluda           |               | 1.60 |      |     |   |    |     | .38  | 1.00 |      |     |    |     | .31  | .34  |     |      |    |     | T.   | 2.00 | .83  |     |     |     |     |     | .14  | .75  | .02  |      | .34    | 7.71 |
| Santee           |               | .02  | 2.34 |     |   |    |     | .40  | 1.32 |      |     |    |     | .15  | .51  | T.  |      |    |     |      | .35  | .60  |     | .04 |     |     |     |      | .69  |      |      | .33    | 9.93 |
| Savannah, Ga.    | .29           | .62  |      |     |   | T. | .13 | .55  | .19  |      |     |    |     | 1.39 | .02  | T.  |      |    |     | T.   | .74  | T.   | .79 | .06 |     | .07 | .28 | .09  |      |      |      | .02    | 5.24 |
| Severn           |               | 2.80 |      |     |   |    |     | .01  | .86  | .10  |     |    |     | .18  | .86  | T.  |      |    |     | .05  | 1.55 |      |     |     |     | .15 |     | .22  | T.   | .57  |      | .30    | 7.65 |
| Smiths Mills     |               | .60  | .12  |     |   |    |     |      | 2.60 | .20  |     |    |     |      | 1.20 | .10 |      |    |     |      | .60  |      |     |     |     |     |     |      |      |      |      | .20    | 6.22 |
| Society Hill     |               | 1.70 |      |     |   |    |     |      | 1.69 |      |     |    |     | .28  | .95  | .03 |      |    |     | .06  | 1.15 |      |     |     |     |     |     |      | 1.31 |      |      | .35    | 7.52 |
| Spartanburg      |               | 2.22 |      |     |   |    | .12 |      | 1.37 | .20  |     |    |     | .08  |      | .60 | .05  |    |     | .40  | 2.30 |      | .08 |     |     |     |     |      | .65  |      |      | T.     | 8.07 |
| Stateburg        |               | 2.43 |      |     |   |    |     | .09  | .30  |      |     |    |     | .96  | .18  |     |      |    |     |      | 1.56 |      | .06 | .05 |     |     | .36 | 1.11 |      |      |      | .40    | 7.50 |
| Summerville      |               | .02  | 1.05 |     |   |    | .02 | .06  | .53  |      |     |    |     | .56  | .72  |     | T.   |    |     | T.   | .48  | .29  |     | .30 | .01 |     |     | .69  | .87  | .07  |      | .33    | 6.00 |
| Sumter           |               | 2.00 |      |     |   |    |     |      | .45  |      |     |    |     | .43  | .69  |     |      |    |     |      | .19  | 1.27 |     | .09 | .07 |     |     | .36  | .91  | .19  |      | .41    | 7.06 |
| Trenton          |               | 2.10 |      |     |   |    |     | .30  | 1.32 |      |     |    |     | .66  |      |     |      |    |     |      | 2.45 | .45  |     |     |     |     |     | .15  | .75  |      |      | .36    | 8.63 |
| Trial            |               | .73  |      |     |   |    | .02 | .16  | .07  |      |     |    |     |      | 1.14 |     |      |    |     |      | .81  |      |     | .02 |     |     |     | .81  | .52  |      |      | .32    | 4.60 |
| Walhalla         |               | .95  | 2.25 |     |   |    |     | 1.20 | 1.60 |      |     |    |     | .20  | .73  | T.  |      |    |     | 1.50 | .25  |      | .25 |     |     |     |     |      | .75  | .05  |      | .05    | 9.78 |
| Walterboro       | T.            | 1.03 |      |     |   |    | T.  |      | .50  |      |     |    |     | .17  | .55  |     |      |    |     |      | .61  | .48  | </  |     |     |     |     |      |      |      |      |        |      |

T. indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JANUARY, 1906.

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## SOUTH CAROLINA SECTION

OF THE

# CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

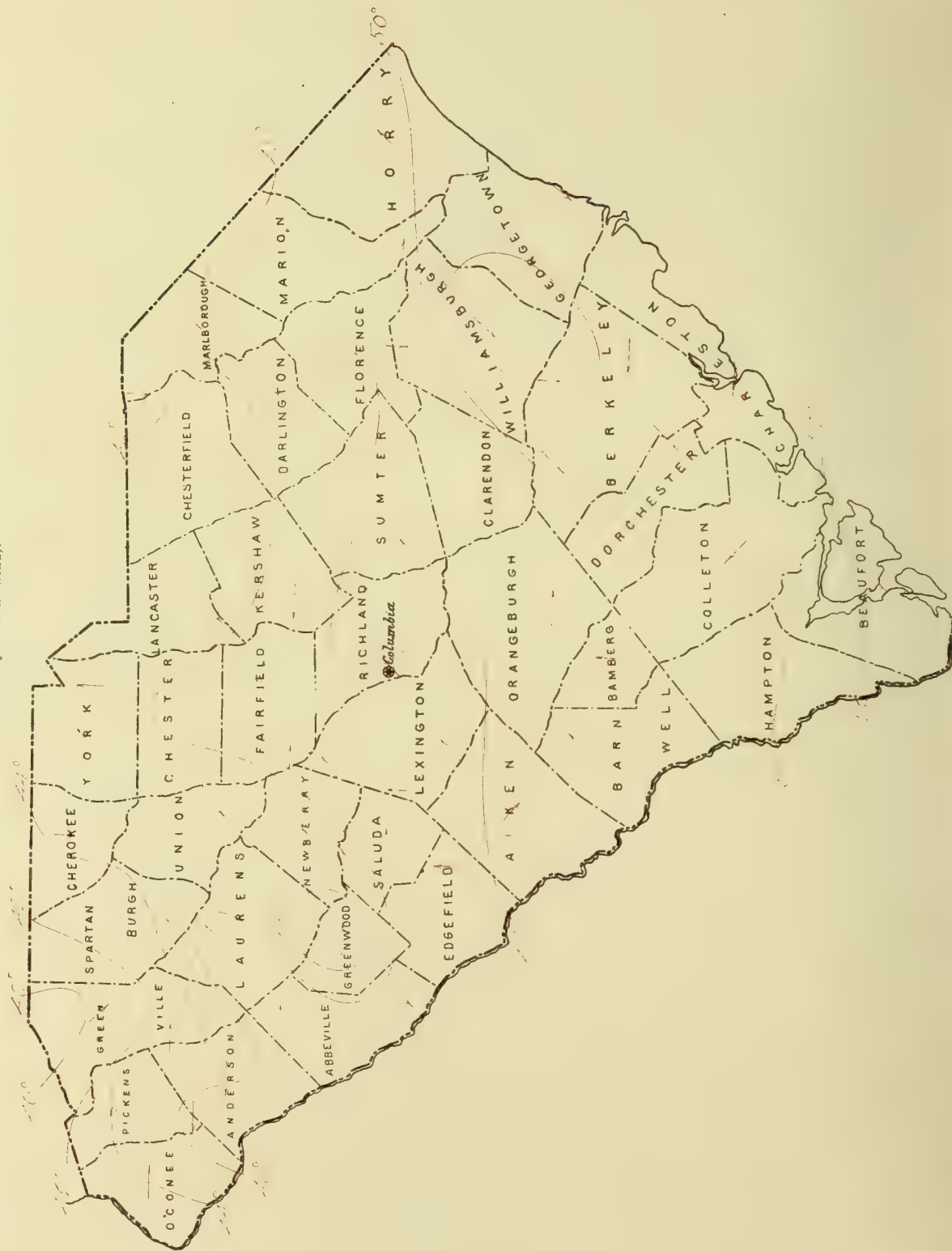
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE  
FEBRUARY 28, 1906.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JANUARY, 1906.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATE AND CROP SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

## SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

VOL. IX. COLUMBIA, S. C., JANUARY, 1906. No. 1.

## CLIMATOLOGY FOR THE MONTH.

## Temperature.

The mean temperature for January, 1906, was  $47.0^{\circ}$ , which is  $2.5^{\circ}$  above normal. The highest local mean temperature was  $52.8^{\circ}$  at Beaufort, the lowest was  $40.2^{\circ}$  at Greenville. The monthly extremes were a maximum of  $83^{\circ}$  at Walterboro on the 20th, and a minimum of  $12^{\circ}$  at Seivern on the 10th, making the State range  $71^{\circ}$ . The greatest local monthly range was  $68^{\circ}$  at Seivern, the least was  $39^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $56.1^{\circ}$ , and of the daily minimum temperatures was  $37.8^{\circ}$ , making the average daily range  $18.3^{\circ}$ .

## Precipitation.

The average precipitation for the State was 5.85 inches which is 2.53 inches above the normal amount. The greatest local monthly amount was 11.69 inches at Liberty, the least was 3.52 inches at Bennettsville. The greatest 24-hour fall was 4.65 inches at Walhalla on the 22nd. The average number of days with 0.01, or more, rainfall was 11, ranging from 5 at Edisto to 16 at Newberry.

## Excessive Precipitation.

Precipitation amounting to 2.50 inches, or more, in 24 hours was recorded as follows: at Anderson, on the 3rd, 2.80 inches in about 16 hours; at Barksdale, on the 3rd, 2.80 inches in about 24 hours; at Clemson College, on the 3rd, 4.33 inches in 24 hours; at Conway, on the 11th-12th, 2.90 inches in 24 hours; at Effingham, on the 25th-26th, 2.50 inches in 24 hours; at Greenville, on the 3rd-4th, 2.50 inches in 24 hours; at Liberty, on the 3rd, 4.20 inches in 24 hours; at Smiths Mills, on the 26th, 2.50 inches in 24 hours; at Walhalla, on the 22nd, 4.65 inches in 24 hours; at Yorkville, on the 3rd, 2.59 inches in 24 hours.

## Wind.

The prevailing direction of the wind was from the north-east at 17 stations, from the west at 10, from the southwest at 9, from the south at 4, from the northwest at 2, and from the southeast at 1 station.

HIGH WINDS.—Anderson, Columbia 22nd; Beaufort 3rd; Bowman 9th, 22nd; Charleston 25th; Liberty 4th, 5th, 6th; Seivern 10th, 17th, 25th; Yorkville 24th.

## Snow.

A trace of snow occurred in the northeastern portion of the State on the 9th. A snow storm covered the western half of the State on the 26th and 27th, during which time the snow accumulated on the ground to a maximum depth of 7.7 inches, at Greenville. At most places it was accompanied by rain and sleet, at intervals.

## Sleet.

A trace of sleet occurred at Summerville on the 9th and at Greenville on the 11th. A general sleet storm covered the western and central portions of the State from the evening of the 25th to the morning of the 27th, generally mixed with snow and some rain.

## Sunshine and Cloudiness.

The average number of clear days was 12, partly cloudy days 4, and cloudy days 15.

## Hail.

Hail was noted at Liberty and at Newberry on the 22nd during the occurrence of a thunderstorm.

## BAROMETER AND WIND TABLE FOR JANUARY, 1906.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 30.15      | 30.51    | 10    | 29.69   | 3     | 5.627           | 7.6             | 28                | w.         | 22    |
| Charleston.....       | 30.14      | 30.47    | 10    | 29.69   | 4     | 8.458           | 11.4            | 40                | ne.        | 25    |
| Charlotte, N. C.....  | 30.15      | 30.53    | 10    | 29.60   | 4     | 6.179           | 8.3             | 30                | w.         | 16    |
| Columbia.....         | 30.14      | 30.52    | 10    | 29.66   | 4     | 6.224           | 8.4             | 31                | sw.        | 22    |
| Savannah, Ga.....     | 30.15      | 30.49    | 10    | 29.73   | 4     | 6.137           | 8.2             | 27                | s.         | 22    |
| Wilmington, N. C..... | 30.12      | 30.51    | 10    | 29.62   | 4     | 6.779           | 9.1             | 36                | s.         | 3     |
| Averages.....         | 30.14      | 30.53    | 10    | 29.60   | 4     | 6.567           | 8.8             | 40                | ne.        | 25    |

## MISCELLANEOUS PHENOMENA.

SOLAR HALOS.—Beaufort 16th; Stateburg 24th.

LUNAR HALOS.—Bowman 8th; Charleston 1, 8, 10th; Columbia 1st; Greenville 7, 17th; Little Mountain 1, 17th; Santuc 2, 8th; Stateburg 1, 7, 10th.

THUNDERSTORMS.—Aiken, Barksdale, Batesburg, Blackville, Charleston, Clemson College, Columbia, Darlington, Greenville, Heath Springs, Liberty, Little Mountain, Newberry, Santuc, Spartanburg, Stateburg, Trenton, Trial, Yemassee 22nd; Bowman, Summerville, Winthrop College 23rd; Seivern 4, 23rd.

DENSE FOGS.—Barksdale 19, 25th; Blackville, Newberry 19, 21st; Bowman 18, 19, 20th; Charleston 12, 19, 31st; Cheraw 31st; Columbia 3, 19, 21, 30th; Greenville 15, 21st; Liberty 14, 15th; Little Mountain 21, 27th; Santuc, Seivern 20, 21st; Society Hill 19, 21, 29, 30th; Summerville 19, 31st; Trial 19th; Winthrop College 3, 21st; Yorkville 13, 20, 21, 28, 29, 30th.



## WEATHER AND CROP CONDITIONS.

The temperature was generally above normal during January, although there were two periods of moderately cold weather. During the first period, from the 9th to the 11th, minimum temperatures of 32°, or lower, were noted in all portions of the State, but the cold weather was not severe enough to injure small grain crops, or even tender crops in the coast regions. Over the western counties the ground froze to a considerable depth and it was without protection from a covering of snow, but there was little alternate freezing and thawing, and practically no damage to either wheat or oats from that source. During the second cool period the ground was covered with snow in that portion of the State that had freezing temperatures, and small grain crops again escaped injury. Beginning on the 20th and ending on the 24th, there was a period of abnormal warmth during which about the highest January maximum temperatures were recorded at many stations, and the highest State maximum temperature for January that has been recorded during the last 13 years, occurred at Walterboro. The heat stimulated the budding of fruit trees, and in Dorchester county peach trees began to bloom. The cold weather that followed the heat wave closely, checked further development of fruit buds in the central and western counties, but was not severe enough to destroy them.

The precipitation was in excess of the normal January amount in all portions of the State, but it was heaviest in the extreme northwestern counties, where, in places, more than twice the normal amounts were recorded. The soil was kept nearly saturated and entirely too wet to permit of plowing, or other forms of preparation for spring planting usual to the month, in the western half of the State, while in the eastern half, where there was less rainfall, some plowing was done on uplands.

Winter truck made favorable growth, and shipments of radishes and lettuce were made from the southern coast districts.

The heavy rainfall did not cause any floods or inundations, but filled all swamps with water to a greater depth than usual, and all streams and water courses had more than their normal flows.

## JANUARY WEATHER.

January's weather represents mid-winter conditions in South Carolina, as its average temperature is somewhat lower than that of either the preceding or following month, although the difference between the mean temperature for January and that for February is less than half a degree, as deduced from the last twelve year's observations. The extremes of temperature have ranged between a maximum of 83° at Walterboro in 1906, and a minimum of 3° at Walhalla in 1897 and at Liberty in 1900. The average date of the occurrence of the maximum temperature is the 14th, indicating that the warmest days are as likely to occur during any part of the month as in any particular decade. So the average date of the minimum temperature is the 12th, from which it may be inferred that the coldest weather is likely to occur during the first two decades.

The average precipitation varied between 7.31 inches in 1895 and 1.81 inches in 1898, and the range at different stations has been between a maximum amount of 11.69 inches at Liberty in 1906, and a minimum amount of 0.30 inch at St. George in 1905. A considerable proportion of the precipitation has usually been in the form of snow or sleet, in the extreme northwestern part of the State, while in the central and eastern parts practically all has been in the form of

rain with only on occasional years that snow or sleet fell to a measurable depth. The data in the accompanying tables are State averages and extremes since 1894.

## Temperature, Rainy Days and Wind.

| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|
| 1894 .. | 47.9       | 57.6      | 40.6      | 77            | 19           | 10          | ne.               |
| 1895 .. | 44.2       | 52.3      | 36.8      | 80            | 5            | 13          | sw.               |
| 1896 .. | 43.8       | 53.5      | 34.2      | 72            | 9            | 6           | ne.               |
| 1897 .. | 42.2       | 51.4      | 32.7      | 76            | 3            | 7           | nw.               |
| 1898 .. | 49.2       | 59.3      | 39.1      | 82            | 8            | 6           | sw.               |
| 1899 .. | 44.4       | 54.2      | 34.7      | 78            | 17           | 11          | n.                |
| 1900 .. | 44.0       | 54.6      | 33.5      | 75            | 3            | 8           | nw.               |
| 1901 .. | 45.1       | 55.3      | 34.9      | 81            | 18           | 9           | nw.               |
| 1902 .. | 42.4       | 53.0      | 31.8      | 80            | 11           | 5           | sw.               |
| 1903 .. | 43.7       | 52.4      | 35.0      | 77            | 13           | 11          | w.                |
| 1904 .. | 40.2       | 50.5      | 30.0      | 74            | 8            | 8           | n.                |
| 1905 .. | 41.4       | 51.5      | 31.2      | 77            | 8            | 7           | w.                |
| 1906 .. | 47.0       | 56.1      | 37.8      | 83            | 12           | 11          | ne.               |

## Precipitation.

| Year.     | State Average. | Greatest Monthly. | Place.       | Least Monthly. | Place.         |
|-----------|----------------|-------------------|--------------|----------------|----------------|
| 1894 .... | 3.15           | 5.19              | Holland.     | 1.19           | Port Royal.    |
| 1895 .... | 7.31           | 10.29             | Conway.      | 4.23           | Port Royal.    |
| 1896 .... | 3.02           | 4.54              | Longshore.   | 1.51           | Charaw.        |
| 1897 .... | 2.29           | 4.80              | Holland.     | 0.13           | Batesburg.     |
| 1898 .... | 1.80           | 4.06              | Central.     | 0.19           | Charleston.    |
| 1899 .... | 4.72           | 6.75              | Holland.     | 2.84           | Charleston.    |
| 1900 .... | 2.43           | 5.65              | Georgetown.  | 1.58           | Stateburg.     |
| 1901 .... | 3.55           | 5.60              | Liberty.     | 1.20           | Pinopolis.     |
| 1902 .... | 2.05           | 4.18              | Longshore.   | 0.36           | Blackville.    |
| 1903 .... | 3.85           | 7.10              | Georgetown.  | 2.40           | Walhalla.      |
| 1904 .... | 2.97           | 4.78              | Sammerville. | 0.82           | Bennettsville. |
| 1905 .... | 2.00           | 4.84              | Walhalla.    | 0.30           | St. George.    |
| 1906 .... | 5.85           | 11.69             | Liberty.     | 3.52           | Bennettsville. |

## OBSERVERS NOTES.

BARKSDALE.—On the 26th rain and snow froze on trees to a considerable thickness, and the accompanying high winds did much damage to timber, uprooting trees and breaking off limbs of fruit trees. BATESBURG.—Fruit trees began to show signs of budding, from the 20th to the 23rd, but budding was checked by the cold wave of the 25th to 27th. There were sleet and snow on the 25th and 26th. BEAUFORT.—The mean temperature was 2.5° below normal, and the precipitation was 2.95 inches in excess. Early truck is well advanced in growth. Radishes and tomatoes are being shipped. The acreage devoted to oats is smaller than usual. BOWMAN.—There was an excess of cloudiness during the first three weeks with generally clear weather during the last week. Small grain crops became very promising. Briar bushes began to bud, and cabbage plants were set out. GREENVILLE.—There was a light fall of snow on the 11th which melted as it fell; on the 26th and 27th snow accumulated on the ground to a depth of 7.7 inches. HEATH SPRINGS.—Both the temperature and the precipitation were above normal during January, and the ground was too wet to permit much plowing to be done. Small grain crops look well. LIBERTY.—Like the preceding one, the month was very wet and no farm work could be done. Small grain crops look fairly well. There was one heavy snow storm. Wheat and oats sowing has not been finished. NEWBERRY.—On the evening of the 3rd, there was a wave of warm air that felt like heat from a furnace. On the night of the 31st, about 9 p. m., a very bright meteor passed to the south-by-east. No plowing, and very little other farm work, was done this month. SANTUC.—The month was mild, but with much cloudiness and rain. There were but four partly cloudy days. Only one snow storm, which occurred on the 26th, and it was mixed with occasional rain and sleet. Fall sown oats look well.



## CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1906.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         | Precipitation—in inches. |                       |        |                            |                       | Sky.                       |                    |                    |                            |                       | Observers. |                               |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|--------------------------|-----------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|-----------------------|------------|-------------------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date.                    | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. |            | Prevailing direction of wind. |
| Aiken                                 | Aiken        | 565             | 22                      | 48.4                               | +2.5                       | 78       | 21    | 25      | 10                       | 33                    | 5.25   | +1.14                      | 2.00                  | 1.0                        | 8                  | 24                 | 1                          | 6                     | nw.        | C. F. McGahan, M. D.          |
| Allendale                             | Barnwell     | 186             | 18                      | 49.6                               | +5.8                       | 76       | 21    | 26      | 10                       | 35                    | 5.35   | +2.41                      | 1.50                  | 0                          | 8                  | 16                 | 0                          | 15                    | e.         | C. A. Glover.                 |
| Anderson                              | Anderson     | 764             | 5                       | 44.9                               | +3.5                       | 68       | 22    | 22      | 10                       | 30                    | 8.06   | +2.57                      | 2.80                  | 1.6                        | 13                 | 13                 | 1                          | 17                    | e.         | H. H. Russell.                |
| Augusta, Ga.                          | Richmond     | 134             | 35                      | 48.8                               | .....                      | 77       | 21    | 24      | 10                       | 33                    | 2.76   | .....                      | 1.00                  | 1.00                       | 11                 | 11                 | 6                          | 14                    | w.         | Weather Bureau.               |
| Barksdale                             | Laurens      | 680             | 5                       | 47.6                               | .....                      | 71       | 22    | 27      | 1                        | 31                    | .....  | .....                      | 2.80                  | 3.0                        | .....              | 6                  | 8                          | 7                     | sw.        | J. T. Garrett.                |
| Batesburg                             | Lexington    | 656             | 18                      | 45.9                               | +0.3                       | 77       | 21    | 22      | 10                       | 30                    | 6.90   | +2.96                      | 1.50                  | 1.0                        | 9                  | 11                 | 8                          | 12                    | s.         | E. J. Hite.                   |
| Beaufort                              | Beaufort     | 28              | 20                      | 52.8                               | +2.5                       | 77       | 20    | 28      | 10                       | 30                    | 5.70   | +2.95                      | 1.84                  | 0                          | 14                 | 16                 | 6                          | 12                    | ne.        | S. M. Benton.                 |
| Bennettsville                         | Marlboro     | 151             | 5                       | 48.0                               | +2.1                       | 78       | 21    | 26      | 9                        | 33                    | 3.52   | .....                      | 0.87                  | 0                          | 10                 | 13                 | 5                          | 13                    | ne.        | C. S. McCall.                 |
| Blackville                            | Barnwell     | 296             | 18                      | 48.8                               | +2.9                       | 79       | 20    | 22      | 10                       | 30                    | 3.68   | +0.18                      | 1.25                  | 0                          | 13                 | 13                 | 5                          | 13                    | sw.        | G. D. C. Lange.               |
| Blairs                                | Fairfield    | 293             | 1                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 6.54   | .....                      | 1.56                  | 0                          | 11                 | 10                 | 5                          | 16                    | w.         | T. S. McMeekin.               |
| Bowman                                | Orangeburg   | 166             | 5                       | 49.0                               | .....                      | 78       | *20   | 22      | 10                       | 37                    | 5.18   | .....                      | 1.18                  | 0                          | 9                  | 14                 | 2                          | 15                    | w.         | B. O. Evans.                  |
| Calhoun Falls                         | Abbeville    | 568             | 13                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 7.80   | +3.71                      | 1.95                  | 0                          | 9                  | 15                 | 0                          | 16                    | ne.        | P. J. Pfeiffer.               |
| Camden                                | Kershaw      | 222             | 40                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 4.55   | +1.21                      | 1.60                  | 0                          | 9                  | 13                 | 6                          | 12                    | e.         | J. C. Whitaker.               |
| Chappons                              | Newberry     | 402             | 1                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 5.62   | .....                      | 1.80                  | 2.0                        | 10                 | 8                  | 4                          | 18                    | ne.        | W. F. Glenn.                  |
| Charleston                            | Charleston   | 48              | 37                      | 51.3                               | .....                      | 71       | 23    | 32      | 10                       | 24                    | 3.65   | .....                      | 1.50                  | 0                          | 12                 | 9                  | 8                          | 14                    | e.         | Weather Bureau.               |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 28                      | 44.2                               | .....                      | 72       | 21    | 26      | 10                       | 26                    | 6.34   | .....                      | 1.93                  | 0                          | 15                 | 8                  | 10                         | 13                    | ne.        | Weather Bureau.               |
| Cheraw (1)                            | Chesterfield | 144             | 18                      | 46.4                               | +3.8                       | 77       | 21    | 19      | 10                       | 35                    | 4.29   | +0.98                      | 1.83                  | 0                          | 13                 | 10                 | 4                          | 17                    | n.         | W. R. Godfrey.                |
| Cheraw (2)                            | .....        | 144             | 13                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 3.97   | +1.11                      | 1.90                  | 0                          | 13                 | 7                  | 1                          | 19                    | n.         | Jno. H. Powe.                 |
| Clarks Hill                           | Edgefield    | 500             | 4                       | 47.8                               | .....                      | 76       | 21    | 20      | 12                       | 35                    | 4.50   | .....                      | 1.13                  | T.                         | 6                  | 7                  | 8                          | 14                    | .....      | Wm. S. Middleton.             |
| Clemson College                       | Oconee       | 850             | 15                      | 46.2                               | +4.3                       | 79       | 22    | 19      | 10                       | 33                    | 11.05  | +7.02                      | 4.33                  | 0                          | 12                 | 11                 | 5                          | 15                    | e.         | Jno. N. Hook.                 |
| Columbia                              | Richland     | 351             | 19                      | 48.2                               | +2.6                       | 77       | 21    | 22      | 10                       | 30                    | 4.12   | +0.32                      | 1.76                  | T.                         | 13                 | 9                  | 9                          | 13                    | ne.        | Central Office.               |
| Conway                                | Horry        | 25              | 14                      | 49.4                               | .....                      | 78       | 20    | 22      | 10                       | 37                    | 5.18   | .....                      | 1.74                  | T.                         | 10                 | 10                 | 1                          | 20                    | sw.        | Miss M. G. Quattlebaum.       |
| Darlington                            | Darlington   | 175             | 11                      | 48.2                               | .....                      | 78       | 21    | 19      | 10                       | 39                    | 4.54   | +2.22                      | 1.43                  | 0                          | 13                 | 11                 | 7                          | 13                    | .....      | Miss F. G. McIver.            |
| Dillon                                | Marion       | 100             | 2                       | 48.2                               | .....                      | 78       | 20    | 20      | 10                       | 38                    | 4.23   | .....                      | 1.78                  | T.                         | 12                 | .....              | .....                      | .....                 | .....      | A. E. Rowell.                 |
| Due West                              | Abbeville    | 710             | 5                       | 46.4                               | .....                      | 71       | 22    | 25      | 10                       | 28                    | 7.02   | .....                      | 2.74                  | 0                          | 10                 | 12                 | 2                          | 17                    | w.         | Rev. O. Y. Bonner.            |
| Edisto                                | Bamberg      | 127             | 13                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 4.78   | +1.55                      | 1.50                  | 0                          | 5                  | 14                 | 2                          | 15                    | s.         | Mrs. M. Thompson.             |
| Edlington                             | Florence     | 105             | 14                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 6.75   | +3.33                      | 2.50                  | 0                          | 10                 | 15                 | 0                          | 16                    | n.         | H. B. McCall.                 |
| Enoree                                | Spartanburg  | 987             | 1                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 6.20   | .....                      | 1.80                  | 0                          | 7                  | 16                 | 0                          | 15                    | sw.        | J. W. King.                   |
| Florence                              | Florence     | 136             | 18                      | 47.8                               | +4.2                       | 78       | 20    | 22      | 10                       | 34                    | 3.63   | +1.09                      | 1.40                  | 0                          | 11                 | 10                 | 2                          | 19                    | ne.        | H. K. Gilbert.                |
| Gaffney                               | Cherokee     | 893             | 10                      | 44.2                               | .....                      | 70       | *21   | 18      | 10                       | 32                    | 8.90   | +5.42                      | 1.06                  | 3.5                        | 14                 | 15                 | 2                          | 14                    | n.         | B. F. Camp.                   |
| Georgetown                            | Georgetown   | 12              | 13                      | 50.6                               | +3.0                       | 73       | *21   | 26      | 9                        | 25                    | 5.95   | +2.08                      | 1.65                  | 0                          | 10                 | 15                 | 0                          | 16                    | ne.        | Reid Whitford.                |
| Greenville                            | Greenville   | 959             | 14                      | 40.2                               | -0.6                       | 68       | 22    | 15      | *10                      | 34                    | 10.63  | +5.96                      | 2.50                  | 7.7                        | 12                 | 7                  | 6                          | 18                    | nw.        | Mrs. S. A. Crittenden.        |
| Greenwood                             | Greenwood    | 671             | 18                      | 43.3                               | +1.7                       | 72       | 22    | 23      | *10                      | 28                    | 6.09   | +2.33                      | 2.15                  | 9                          | 7                  | 13                 | 0                          | 18                    | w.         | M. M. Calhoun.                |
| Heath Springs                         | Lancaster    | 568             | 5                       | 44.8                               | .....                      | 76       | 22    | 20      | 10                       | 30                    | 5.50   | .....                      | 1.55                  | 0                          | 14                 | 12                 | 3                          | 16                    | ne.        | J. A. Weaner.                 |
| Kingstree (1)                         | Williamsburg | 54              | 18                      | 53.3                               | +6.7                       | 80       | 20    | 26      | 10                       | 29                    | .....  | .....                      | .....                 | .....                      | 11                 | 5                  | 13                         | .....                 | ne.        | J. A. Scott.                  |
| Kingstree (2)                         | .....        | 54              | 12                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 5.04   | +1.82                      | 1.90                  | 0                          | 11                 | 12                 | 1                          | 18                    | ne.        | A. O. Matthews.               |
| Liberty                               | Pickens      | 900             | 12                      | 44.4                               | +3.5                       | 68       | 20    | 15      | 10                       | 32                    | 11.69  | +6.44                      | 4.20                  | 6.0                        | 10                 | 15                 | 3                          | 13                    | e.         | Jno. T. Boggs.                |
| Little Mountain                       | Newberry     | 630             | 13                      | 46.7                               | +1.4                       | 75       | 21    | 23      | 10                       | 30                    | 4.09   | +0.66                      | 1.26                  | 1.0                        | 15                 | 11                 | 7                          | 13                    | sw.        | John M. Sease, M. D.          |
| Lugoff                                | Kershaw      | 168             | 5                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 6.18   | +1.90                      | 1.31                  | 2.5                        | 16                 | 8                  | 8                          | 15                    | ne.        | W. J. Burdell, M. D.          |
| Newberry                              | Newberry     | 502             | 2                       | 44.7                               | +2.2                       | 77       | 21    | 21      | 10                       | 34                    | 9.28   | .....                      | 1.82                  | 3.5                        | 13                 | 12                 | 2                          | 17                    | w.         | W. G. Peterson.               |
| Pelzer                                | Anderson     | 873             | 1                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 4.55   | +1.52                      | 1.90                  | 0                          | 10                 | 11                 | 7                          | 10                    | e.         | John M. Ward.                 |
| Pinopolis                             | Berkeley     | 54              | 13                      | 51.8                               | +3.7                       | 74       | 22    | 24      | .....                    | .....                 | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....                 | .....      | E. P. Ravenel.                |
| St. Georges                           | Dorchester   | 109             | 18                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 5.73   | +3.00                      | 1.60                  | 0                          | 7                  | 17                 | 0                          | 14                    | .....      | W. B. Raysor.                 |
| St. Matthew                           | Orangeburg   | 269             | 18                      | 48.0                               | +1.1                       | 75       | *20   | 24      | 10                       | 37                    | 4.93   | +1.60                      | 2.17                  | 0                          | 15                 | 10                 | 0                          | 21                    | n.         | J. S. Warramaker.             |
| St. Stephen                           | Berkeley     | 73              | 14                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 5.81   | .....                      | 2.05                  | 3.5                        | 15                 | 14                 | 3                          | 14                    | w.         | C. T. Shuler.                 |
| Saluda                                | Saluda       | 536             | 5                       | 46.7                               | .....                      | 77       | 21    | 19      | 10                       | 36                    | 3.96   | +1.60                      | 2.17                  | 0                          | 15                 | 10                 | 0                          | 21                    | n.         | Alvin Etheridge.              |
| Sumter                                | Union        | 512             | 13                      | 44.3                               | +1.8                       | 74       | 21    | 18      | 10                       | 33                    | 3.39   | +3.35                      | 2.11                  | 2.0                        | 15                 | 11                 | 4                          | 16                    | ne.        | E. W. Jeter.                  |
| Savannah, Ga.                         | Chatham      | 71              | 37                      | 52.7                               | .....                      | 76       | 22    | 30      | 10                       | 37                    | 3.39   | .....                      | 1.35                  | 0                          | 11                 | 9                  | 9                          | 13                    | w.         | Weather Bureau.               |
| Seivern                               | Aiken        | 482             | 5                       | 46.2                               | +0.8                       | 80       | 21    | 12      | 10                       | 44                    | 4.73   | +1.03                      | 1.55                  | 1.0                        | 11                 | 12                 | 4                          | 15                    | sw.        | Geo. C. Gunter.               |
| Smiths Mills                          | Williamsburg | 62              | 11                      | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 3.95   | +1.18                      | 2.50                  | 0                          | 7                  | 12                 | 0                          | 19                    | w.         | H. van Keuren.                |
| Society Hill                          | Darlington   | 192             | 15                      | 45.0                               | +1.9                       | 73       | *21   | 23      | *0                       | 30                    | 4.26   | +1.10                      | 1.90                  | 0                          | 10                 | 14                 | 2                          | 15                    | ne.        | J. J. Lucas.                  |
| Spartanburg                           | Spartanburg  | 875             | 15                      | 43.0                               | +0.9                       | 69       | 22    | 21      | 10                       | 32                    | 8.69   | +5.60                      | 2.32                  | 5.5                        | 12                 | 7                  | 2                          | 22                    | .....      | F. P. Robinson.               |
| Stateburg                             | Sumter       | 500             | 29                      | 49.8                               | +4.6                       | 82       | 22    | 22      | 10                       | 20                    | 4.91   | +1.34                      | 1.68                  | 0                          | 12                 | 8                  | 6                          | 17                    | sw.        | W. W. Anderson, M. D.         |
| Summerville                           | Dorchester   | 75              | 9                       | 51.2                               | +3.2                       | 79       | 20    | 23      | 10                       | 39                    | 4.57   | +0.79                      | 1.02                  | 0                          | 14                 | 11                 | 8                          | 12                    | ne.        | Miss E. H. Gadsden.           |
| Sumter                                | Sumter       | 169             | 5                       | .....                              | .....                      | .....    | ..... | .....   | .....                    | .....                 | 5.11   | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....                 | .....      | H. A. Moses.                  |
| Trenton                               | Edgefield    | 620             | 13                      | 47.0                               | -0.5                       | 71       | 21    | 26      | 10                       | 26                    | 5.11   | +1.20                      | 2.36                  | 1.5                        | 10                 | 11                 | 8                          | 12                    | s.         | C. A. Long.                   |
| Trial                                 | Berkeley     | 85              | 20                      | 50.0                               | +2.8                       | 79       | 20    | 21      | 10                       | 37                    | 4.74   | +1.12                      | 2.15                  | 0                          | 12                 | 9                  | 6                          | 16                    | ne.        | Etsell Gaillard.              |
| Walhalla                              | Oconee       | 1061            | 15                      | 44.2                               | +2.1                       | 67       | 18    | 19      | 10                       | 31                    | 10.60  | +6.46                      | 4.65                  | 2.0                        | 11                 | 12                 | 6                          | 13                    | w.         | Miss L. E. Isbell.            |
| Walterboro                            | Colleton     | 69              | 3                       | 51.6                               | .....                      | 83       | 20    | 21      | 10                       | 42                    | 5.70   | .....                      | 1.70                  | 0                          | 13                 | 14                 | 7                          | 10                    | se.        | J. A. Westerberg.             |
| Wilmington, N. C.                     | New Hanover  | 52              | 37                      | 49.9                               | .....                      | 74       | 22    | 26      | 10                       | 31                    | 3.26   | .....                      | 1.66                  | 0.1                        | 11                 | 12                 | 5                          | 14                    | ne.        | Weather Bureau.               |
| Winnsboro                             | Fairfield    | 545             | 17                      | 46.2                               | +3.0                       | 75       | 21    | 30      | 9                        | 30                    | 5.70   | +2.53                      | 2.00                  | T.                         | 8                  | 14                 | 5                          | 12                    | sw.        | John W. Seigler.              |
| Winthrop College                      | York         | 690             | 7                       | 45.2                               | +2.0                       | 74       | 21    | 21      | 10                       | 27                    | 7.28   | +3.77                      | 1.96                  | 2.5                        | 15                 | 14                 | 4                          | 13                    | s.         | E. R. Rivers.                 |
| Yemassee                              | Beaufort     | 23              | 11                      | 48.7                               | +0.4                       | 77       | 20    | 22      | 10                       | 37                    | 5.93   | +3.63                      | 1.53                  | 0                          | 15                 | 13                 | 0                          | 18                    | .....      | J. G. Hutson.                 |
| Yorkville                             | York         | 680             | 18                      | 45.6                               | +2.5                       | 73       | 21    | 26      | 10                       | 29                    | 7.78   | +3.92                      | 2.59                  | 2.5                        | 11                 | 9                  | 5                          | 17                    | sw.        | J. R. Schorb.                 |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 47.0                               | +2.5                       | 83       | 20    | 12      | 10                       | 44                    | 5.85   | +2.53                      | 4.65                  | 0.8                        | 11                 | 12                 | 4                          | 15                    | ne.        |                               |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.

§ Exposed not standard. \* On other dates also a indicates 1 day missing. b, 2 days, etc.



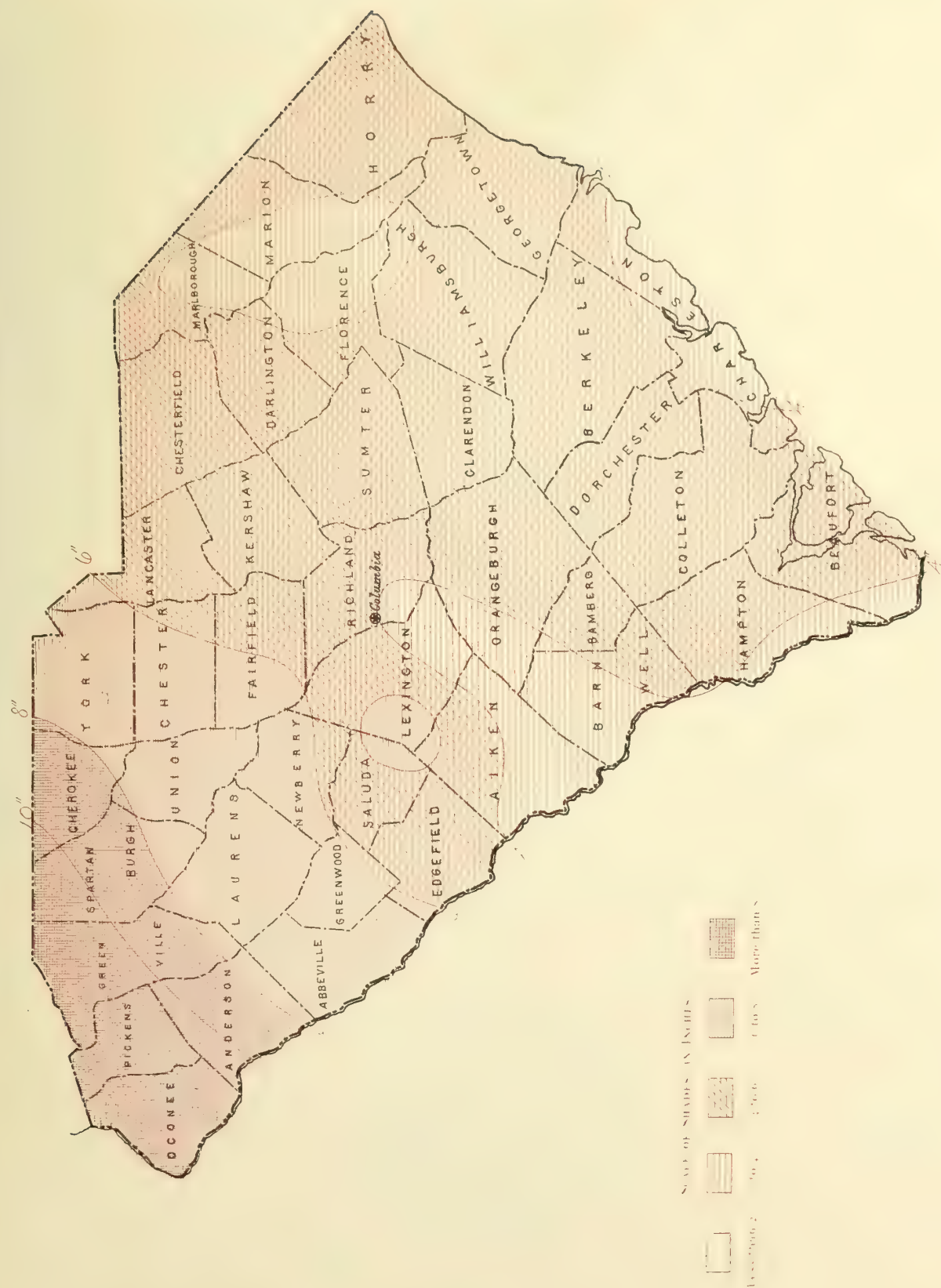
STATIONS.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs.  
† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day, on which it nearly always occurs. The date for Sundays and Mondays taken on Monday mornings and Monday evenings and Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR JANUARY, 1906.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JANUARY, 1906.

| STATIONS.         | Day of Month. |     |      |      |    |   |   |     |     |      |      |      |     |     |     |      |     |     |     |     |      |      |      |      |      |      |      |      |     |    |      | Total. |
|-------------------|---------------|-----|------|------|----|---|---|-----|-----|------|------|------|-----|-----|-----|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|-----|----|------|--------|
|                   | 1             | 2   | 3    | 4    | 5  | 6 | 7 | 8   | 9   | 10   | 11   | 12   | 13  | 14  | 15  | 16   | 17  | 18  | 19  | 20  | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29  | 30 | 31   |        |
| Aiken             |               |     | .60  | .35  |    |   |   |     |     |      |      | .35  | .25 |     |     |      |     | .10 |     |     |      |      | .10  |      |      | .50  | 2.00 |      |     |    |      | 5.25   |
| Allendale         |               | .60 | .10  |      |    |   |   |     |     |      |      |      | .45 | .68 | .04 | 1.50 |     |     |     |     |      | .40  | .95  | .20  | 1.00 |      | .30  |      |     |    |      | 5.35   |
| Anderson          |               |     | 2.80 |      |    |   |   | .21 | .02 |      |      | .45  | .68 | .04 |     | .18  |     |     |     |     | 2.00 | .06  |      | .05  | 1.47 | .07  |      |      |     |    |      | 8.06   |
| Augusta, Ga.      |               | T.  | .60  |      |    |   |   | .01 |     | T.   |      | .22  | .02 | .02 |     | T.   |     |     |     |     | T.   | .58  | .21  |      |      | .81  | .19  | T.   |     |    |      | 2.76   |
| Barksdale         |               |     | 2.80 |      |    |   |   |     |     |      |      |      |     |     |     |      | .20 |     | .07 |     |      | T.   |      |      |      |      |      |      |     |    |      |        |
| Batesburg         | .47           |     | .73  | 1.02 |    |   |   |     | T.  |      | T.   | .98  | .09 | T.  |     | T.   |     |     |     |     |      | 1.00 |      |      |      | 1.00 |      |      |     |    |      | 6.90   |
| Beaufort          |               |     | .48  | 1.11 |    |   |   | .06 |     |      | .01  | .28  | .03 | .01 | .02 | .01  |     |     |     |     |      | .47  | 1.29 |      | 1.50 | .35  |      |      |     |    |      | 6.90   |
| Bennettsville     |               |     | .81  | .20  |    |   |   |     |     |      | T.   | .14  | .03 |     |     |      |     |     |     |     | .27  | 1.84 | .04  |      | 1.03 | .51  |      |      |     |    |      | 5.70   |
| Blackville        |               |     | .01  | .70  |    |   |   | .01 |     |      |      | .20  | .01 |     |     | T.   |     |     |     |     |      | .13  | .50  |      | .76  | .87  | .04  | .04  |     |    |      | 3.52   |
| Blairs            | .49           |     | .80  | .86  |    |   |   | .10 |     |      |      | 1.16 | .06 | .26 |     | .04  |     |     |     |     |      | .10  | .90  | .12  | .03  | .25  | .03  | .03  |     |    |      | 3.68   |
| Bowman            |               |     | .86  | .35  |    |   |   |     |     |      | T.   | .1   | .06 |     |     |      |     | .04 |     |     |      | .28  | .96  |      | 1.56 | .46  |      |      |     |    |      | 6.54   |
| Calhoun Falls     | .18           |     | 1.47 | .94  |    |   |   |     |     |      |      | 1.95 |     | .06 |     | T.   |     |     | .04 |     |      | .35  | 1.18 | T.   | 1.17 | 1.12 | .05  |      |     |    |      | 5.18   |
| Camden            | .20           |     | .30  | .75  |    |   |   |     | .10 |      |      | .10  |     |     |     |      |     |     |     |     |      | .86  | .91  |      | .65  | .62  | .22  |      |     |    |      | 7.80   |
| Chappells         |               |     | .91  | .80  |    |   |   |     | .12 |      |      | .06  | .74 | .01 | T.  | .04  | .04 |     |     |     |      | .40  | .70  |      | 1.60 | .40  |      |      |     |    |      | 4.55   |
| Charleston        |               |     | .38  | .67  |    |   |   | T.  | .10 |      |      | .32  | .11 | .01 | T.  | .05  | T.  |     |     |     |      | T.   | 1.04 |      |      | 1.80 |      |      |     |    |      | 5.62   |
| Charlotte, N. C   |               |     | 1.93 |      |    |   |   | .06 |     |      | .23  | .87  | .14 |     | .05 | .04  |     |     |     |     | .06  | .35  | .05  | T.   | 1.33 | .21  | T.   |      |     |    |      | 3.65   |
| Cheraw(1)         | .36           |     | .10  | .82  |    |   |   | .08 |     |      |      | .01  | .15 | .02 |     | T.   |     |     |     |     | .18  | 1.28 | .10  |      | .06  | 1.29 | .09  | .01  |     |    |      | 6.34   |
| Cheraw(2)         | .39           |     | .27  | .12  |    |   |   | .07 |     |      |      | .04  | .12 | .04 |     | T.   |     |     |     |     |      | .10  | .49  | .02  | 1.83 | .30  | .01  |      |     |    |      | 4.29   |
| Clark's Hill      |               |     | .75  |      |    |   |   |     |     |      |      | T.   | .40 |     |     | .60  |     |     |     |     |      | .62  |      |      |      | 1.90 | .36  | .02  |     |    |      | 3.97   |
| Clemson College   |               |     | 4.33 | .09  |    |   |   | .24 |     |      | .39  | .66  | .16 |     | .39 |      |     | .07 |     |     |      | .90  | 2.73 |      | 1.54 | .15  |      |      |     |    |      | 4.50   |
| Columbia          |               |     | .93  | .05  |    |   |   | .02 | .04 |      |      | .04  | .05 | .11 | .01 |      |     | T.  |     |     |      | T.   | .83  | .07  | .60  | 1.31 | .06  |      |     |    |      | 11.65  |
| Conway            | .28           |     | .08  | .90  |    |   |   |     |     |      | .20  |      | T.  |     |     | .20  |     |     |     |     |      |      | .15  |      | .40  | 2.90 | .32  | .05  |     |    |      | 4.12   |
| Darlington        |               |     | .62  | .22  |    |   |   | .16 |     |      | .02  | .07  | .05 | T.  |     |      | .20 |     |     |     |      | .06  | .24  | .62  |      | .94  | 1.43 | .09  | .02 |    |      | 5.48   |
| Dillon            |               |     | .28  | .23  | T. |   |   | .24 |     |      | .09  |      |     |     |     | .05  |     |     | .08 |     |      |      | .88  | .24  | T.   | 1.00 | 1.78 | .12  | .04 |    |      | 4.54   |
| Due West          |               |     | 2.74 |      |    |   |   | .14 |     |      | .47  | .22  | .05 |     |     | .16  |     |     | T.  |     |      |      | .88  |      | T.   | 2.25 | .05  |      |     |    |      | 4.23   |
| Edisto            |               |     |      | .90  |    |   |   |     |     |      |      |      |     |     |     |      |     |     |     |     |      | .85  | 1.40 |      | 1.50 | .11  |      |      |     |    |      | 7.02   |
| Effingham         | .90           |     | .25  | .75  |    |   |   | .15 |     |      |      |      | T.  |     |     |      |     |     |     |     |      | T.   | .50  | .20  | .25  | 2.50 | .75  | .50  |     |    |      | 4.78   |
| Enoree            |               |     | .90  | .90  |    |   |   |     |     |      |      | 1.50 |     | .10 |     |      |     |     |     |     |      |      | .90  |      | 1.80 | .10  |      |      |     |    |      | 6.75   |
| Florence          | .30           |     | .30  | .49  |    |   |   | .20 |     |      |      | .04  | .05 |     | .03 |      |     |     |     |     |      |      | .63  | .04  | 1.40 |      | .15  |      |     |    |      | 6.20   |
| Gaffney           | .10           |     | .80  | 1.96 |    |   |   | .12 |     |      |      | .98  | .68 | .82 |     |      |     |     |     |     |      |      | .30  | .90  |      | .70  | .90  | .10  |     |    |      | 3.63   |
| Georgetown        |               | .20 | 1.65 | T.   |    |   |   | .92 |     |      | .05  | T.   | .20 |     |     |      |     |     |     |     |      | .70  |      | .48  | 1.50 | .20  | .05  |      |     |    |      | 8.90   |
| Greenville        | .02           |     | 1.05 | 2.50 |    |   |   | .15 |     |      | T.   | 1.64 | .02 | .23 | T.  | .27  |     | .10 |     |     | T.   | T.   | .10  | 1.73 |      | .07  | .65  | 2.10 |     |    |      | 5.95   |
| Greenwood         |               |     | 1.10 | .95  |    |   |   | .05 |     |      |      | .80  |     |     | .05 |      |     |     |     |     |      |      | .99  |      |      |      | 2.15 |      |     |    |      | 10.63  |
| Heath Springs     |               |     | 1.39 |      |    |   |   | .10 |     |      | .06  | .03  | .08 | .01 | .01 |      |     | .05 |     |     | .01  | 1.55 | .02  |      | 1.00 | 1.14 | .05  |      |     |    |      | 6.00   |
| Kingstree(1)      |               |     |      |      |    |   |   |     |     |      |      |      |     |     |     |      |     |     |     |     |      |      |      |      |      |      |      |      |     |    | 5.50 |        |
| Kingstree(2)      | .46           |     |      | .84  |    |   |   | .18 |     |      |      | .05  | .05 |     |     |      |     |     |     |     |      | .12  | .60  |      | .55  | 1.90 | .17  | .12  |     |    |      | 5.04   |
| Liberty           |               | T.  | 4.20 |      |    |   |   | .30 |     |      | .60  |      | .15 |     | T.  | .50  |     | .10 |     |     | T.   | T.   |      |      |      | .20  | 1.40 | .26  |     |    |      | 11.60  |
| Little Mountain   |               |     | 1.26 | .14  |    |   |   | .10 | .05 |      | .10  | .30  | .09 | .05 |     | .05  |     |     |     |     |      | 1.20 | .15  |      | .23  | 1.00 | .27  | .10  |     |    |      | 4.09   |
| Lugoff            |               |     |      |      |    |   |   |     |     |      |      |      |     |     |     |      |     |     |     |     |      |      |      |      |      |      |      |      |     |    |      |        |
| Newberry          |               | .47 | 1.00 |      |    |   |   | .10 | .05 | 1.10 | .05  | .10  |     | .05 | .05 | .01  | .02 |     |     |     | .20  | 1.25 | .01  |      | 1.31 | .36  | .10  |      |     |    |      | 6.18   |
| Pelzer            | .12           |     | 1.14 | 1.76 |    |   |   | .18 |     | .06  | 1.60 |      |     | .06 |     | .22  |     | .04 |     |     |      | .22  | 1.82 |      | 1.56 | .50  |      |      |     |    |      | 9.28   |
| Pinopolis         |               |     | .44  | .70  |    |   |   |     |     | .10  | .07  |      |     |     | .05 |      |     |     |     |     |      | .47  | .50  | .27  | 1.90 | .05  |      |      |     |    |      | 4.55   |
| St. Georges       |               |     |      |      |    |   |   |     |     |      |      |      |     |     |     |      |     |     |     |     |      |      |      |      |      |      |      |      |     |    |      |        |
| St. Matthew       |               |     |      | 1.40 |    |   |   |     |     |      |      |      |     |     |     |      |     |     |     |     |      | .88  | 1.20 | .10  | 1.10 | 1.60 | .45  |      |     |    |      | 5.73   |
| St. Stephen       | .20           |     | .10  | .80  |    |   |   | T.  | .12 |      |      | .05  | .03 | .01 |     | .10  |     |     | .07 |     |      | .06  | .85  |      | .17  | 2.17 | .12  | .08  |     |    |      | 4.93   |
| Saluda            |               |     | 1.16 | .09  |    |   |   | .11 |     |      | .10  | .70  | .03 | .02 |     | .05  |     | .03 |     |     |      | .18  | 1.12 |      | 1.00 | 2.05 | .02  | .05  |     |    |      | 5.81   |
| Santee            |               |     | 2.11 | .05  |    |   |   | .06 | .07 |      | .16  | 1.03 | .29 | .04 |     | .09  |     | .02 |     |     |      | .32  | .77  |      | .07  | 1.65 | .28  |      |     |    |      | 6.96   |
| Savannah, Ga.     |               |     | .83  | .51  |    |   |   | .01 |     |      | .19  | .03  | .01 |     |     |      |     | .15 |     |     |      | .63  | T.   |      | .88  | .04  |      |      |     |    |      | 3.39   |
| Seivern           | .05           |     | .79  |      |    |   |   | .06 |     |      |      | .50  |     | .06 |     |      |     |     | T.  | .10 |      | .60  | .82  | .04  | 1.55 | .16  |      |      |     |    |      | 4.73   |
| Smiths Mills      | .25           |     | .12  | .35  |    |   |   | T.  |     |      |      |      | T.  | T.  |     | .28  |     |     | T.  |     |      |      | .25  |      | T.   | 2.50 | .20  | T.   |     |    |      | 3.95   |
| Society Hill      | .43           |     | .50  |      |    |   |   | .10 |     |      | .03  |      | .02 |     |     |      |     |     |     |     | .10  | .85  | .03  |      | 1.90 | .27  |      |      |     |    |      | 4.26   |
| Spartanburg       | .05           |     | .90  | 2.10 |    |   |   | .12 |     |      | 1.65 | .25  |     |     | .25 |      |     | .02 |     |     | T.   |      | .02  | 1.01 |      | 2.32 | T.   |      |     |    |      | 8.69   |
| Stateburg         |               |     | .76  | .06  |    |   |   | .11 |     | .02  |      | .06  |     |     |     |      |     | .04 |     |     | .07  | 1.68 | .05  |      | .70  | 1.30 | .06  |      |     |    |      | 4.91   |
| Summerville       | .04           |     | .48  | .78  |    |   |   | T.  | .07 |      | .02  | .12  | .06 | T.  | .01 | T.   |     |     |     |     |      | .64  | .71  |      | 1.02 | .55  | .06  | .04  |     |    |      | 4.57   |
| Sumter            |               |     | .48  | .35  |    |   |   |     |     |      |      |      |     |     |     |      |     |     |     |     |      |      |      |      |      |      |      |      |     |    |      |        |
| Trenton           |               |     | .99  |      |    |   |   | .02 |     |      | .26  | .02  |     |     | .28 |      |     |     |     |     |      | T.   | .93  | .18  |      | 1.8  |      |      |     |    |      | 5.11   |
| Trial             |               |     | .85  |      |    |   |   | .12 | .04 |      | .07  | .03  | T.  |     |     |      |     | .04 |     |     |      | .06  | .91  | .05  | 2.15 | .33  | .09  |      |     |    |      | 4.74   |
| Walhalla          |               |     | 3.72 | .10  |    |   |   | .23 |     |      | .20  | .40  | .30 | T.  | .55 |      |     |     |     |     |      | 4.65 | .15  |      |      | .15  | .15  |      |     |    |      | 10.60  |
| Walterboro        |               |     | .42  | .77  |    |   |   | .08 |     |      | T.   | .05  | .03 | T.  |     |      |     | .04 |     |     |      | .28  | .59  | 1.01 | 1.70 | .75  | .04  | .02  |     |    |      | 5.70   |
| Wilmington, N. C. |               |     | .55  | .20  |    |   |   | T.  | .06 |      | .06  | .02  | T.  |     |     | .01  |     | .03 |     |     |      | .50  | .52  | T.   | .96  | .82  | T.   | .03  |     | T. |      | 3.26   |
| Winnsboro         |               |     | .75  | .25  |    |   |   | T.  |     |      | T.   |      | .20 | T.  |     |      |     |     |     |     |      | .50  | .30  | .20  | 2.00 | 1.50 | T.   |      |     |    |      | 5.70   |
| Winthrop College  |               |     | 1.96 | .06  |    |   |   | .10 | .03 |      | .13  | .68  | .11 |     |     |      |     |     |     |     |      |      |      |      |      |      |      |      |     |    |      |        |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR FEBRUARY, 1906.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

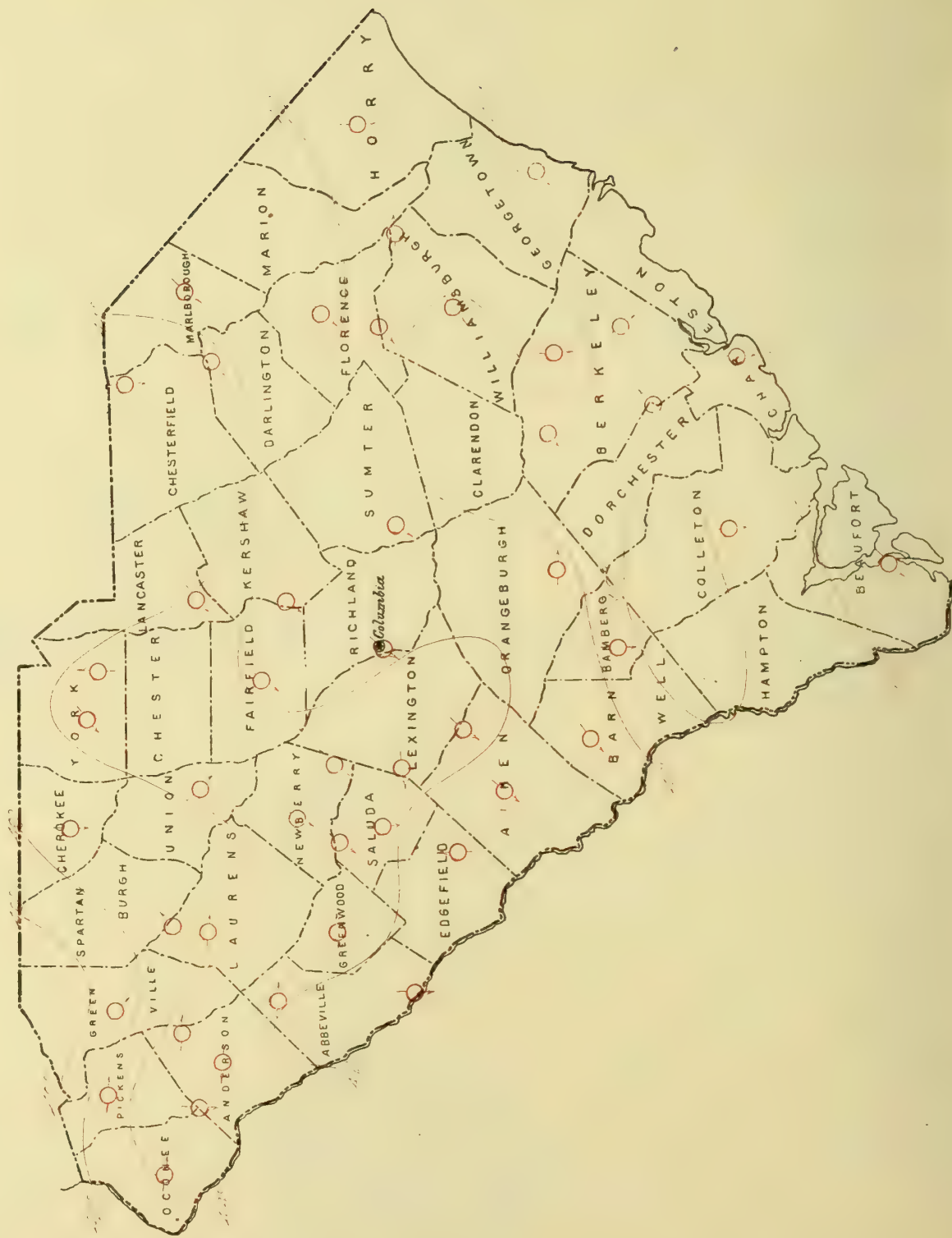


RALEIGH, N. C.  
WEATHER BUREAU OFFICE

MARCH 28, 1906.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR FEBRUARY, 1906.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
 OF THE  
**WEATHER BUREAU.**  
 CENTRAL OFFICE: WASHINGTON, D. C.

**SOUTH CAROLINA SECTION,**  
 J. W. BAUER, Section Director.

VOL. IX. COLUMBIA, S. C., FEBRUARY, 1906. No. 2.

**GENERAL SUMMARY.**

The month began with the temperature ranging below normal, due a persistent cold-wave, and the temperatures continued low, with frequent rains, some snow and one general sleet and ice storm, during the first half of the month, while during the second half the weather was generally warm and dry, until on the last day a cold wave crossed the State that caused freezing temperatures from the mountains to the coast. The monthly extremes of temperature were well within previously recorded bounds.

The precipitation ranged from about an inch, in the extreme northwestern portion, to nearly eight inches on the coast in Georgetown County. The increase from west to east was in quite regular gradation. The snowfall was confined to the northern half of the State, with the greatest depths in Newberry County, and in the bordering portions of surrounding counties, where it amounted to somewhat more than two inches.

There were more bright sunny days than are usual to the month, especially during the second half, and there were no destructive storms, or other unusual phenomena worthy of comment. The rivers maintained about normal winter depths of flow steadily throughout the month.

As a whole, February, 1906, had practically normal weather, except for the deficiency in precipitation over the central and western counties.

**Temperature.**

The mean temperature for February, 1906, was 46.0°, which is 0.7° below normal. The highest local mean was 50.6° at Beaufort, the lowest was 40.4° at Greenville. The extremes for the month were a maximum of 76° at Conway and Summerville on the 25th and at Walterboro on the 20th, and a minimum of 12° at Liberty on the 5th, making the State range 64°. The greatest local monthly range was 59° at Seivern, the least was 40° at Charleston. The mean of the daily maximum temperatures was 57.2° and of the daily minimum temperatures was 34.8°, making the average daily range 22.4°.

**Precipitation.**

The average precipitation for the State was 2.58 inches which is 2.20 inches below the normal amount. The greatest local monthly amount was 7.26 inches at Georgetown, the least was 0.96 inch at Greenville. The greatest 24-hour fall was 2.80 inches at Georgetown on the 12th. The average number of days with 0.01 inch, or more, rainfall was 6, ranging from 3 at Allendale, Enoree and Walhalla to 11 at Yemassee.

**EXCESSIVE PRECIPITATION.**—At Georgetown on the 12th, 2.80 inches in 24 hours.

**HAIL.**—Hail was reported in connection with the occurrence of thunderstorms as follows: Cheraw 22nd; Dillon, Winthrop College 27th; Walterboro 26th.

**SLEET.**—Sleet was noted on four dates, and at fifteen stations as follows: Aiken, Barksdale, Bowman, Heath Springs, Saluda 8th; Batesburg, Clarks Hill 7th, 8th; Blackville, Columbia, Darlington, Little Mountain 7th; Georgetown 6th; Santuc, Yorkville 8th, 12th.

**SNOW.**—There was but one storm with snow during the month, although the snow fell on three dates, and was noted at twenty-two stations as follows: Anderson, Barksdale, Calhoun Falls, Camden, Cheraw, Clemson College, Dillon, Due West, Greenville, Greenwood, Heath Springs, Liberty, Little Mountain, Newberry, Santuc on the 7th; at Blairs, Chappels, Saluda 7th, 8th; Society Hill, Spartanburg 6th.

**Wind.**

The prevailing direction of the wind was from the north-east at 23 stations, from the north at 11 stations, from the east at 8 stations, from the northwest at 4 stations, from the southwest at 3 stations, and from the east and south at 2 stations each.

**HIGH WINDS.**—Occurred at Barksdale, Beaufort (gale), Bowman, Clarks Hill, Newberry, Saluda, Trenton, Walhalla, Yorkville 27th; Charleston 12th; Columbia 21st, 28th; Liberty 1st, 14th, 23rd; Seivern 22nd, 28th.

**Sunshine and Cloudiness.**

The average number of clear days was 16, of partly cloudy days was 5, and of cloudy days was 7.

**BAROMETER AND WIND TABLE FOR FEBRUARY, 1906.**

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.20      | 30.55    | 11    | 29.67   | 27    | 4.645           | 6.9             | 36                | w.         | 27    |
| Charleston. ....       | 30.17      | 30.49    | 11    | 29.67   | 27    | 8.167           | 12.2            | 43                | n.         | 12    |
| Charlotte, N. C. ....  | 30.21      | 30.69    | 11    | 29.59   | 27    | 5.523           | 8.2             | 33                | w.         | 21    |
| Columbia. ....         | 30.20      | 30.59    | 11    | 29.62   | 27    | 5.255           | 7.9             | 30                | w.         | 21    |
| Savannah, Ga. ....     | 30.18      | 30.47    | 11    | 29.74   | 27    | 5.618           | 8.4             | 34                | nw.        | 27    |
| Wilmington, N. C. .... | 30.16      | 30.61    | 11    | 29.62   | 27    | 5.913           | 8.8             | 36                | n.         | 12    |
| Averages. ....         | 30.19      | 30.69    | 11    | 29.59   | 27    | 5.870           | 8.7             | 43                | n.         | 12    |

**MISCELLANEOUS PHENOMENA.**

**SOLAR HALOS.**—Solar halos were noted at Seivern on the 17th, and at Stateburg on the 5th, 15th.

**LUNAR HALOS.**—Lunar halos were noted at Blackville on the 1st; at Charleston on the 1st, 4th, 5th; at Santuc (corona) 10th; Stateburg 4th, 5th.

**DENSE FOGS.**—Dense fogs of one hour, or longer, duration occurred on five dates, at the following stations: Columbia 20th; Greenville, Yorkville 5th; Liberty 9th, 25th.

**THUNDERSTORMS.**—Thunderstorms occurred on six dates, and were reported from the following stations: Barksdale 24th; Beaufort, Bennettsville, Bowman, Columbia, Darlington, Liberty, Society Hill, Trial, Walhalla, Yemassee, Yorkville on the 21st; Cheraw 22nd; Dillon 21st, 27th; Georgetown 20th; Winthrop College 27th; Walterboro 26th.



## OBSERVERS' REMARKS.

BEAUFORT.—The mean temperature was 2.2° below normal, and the precipitation was 1.13 below. The slight freeze on the 28th did very little damage. BOWMAN.—The first maple tree bloom was seen on the 5th, and the first peach bloom on the 18th. CLARKS HILL.—The first open peach bloom was noted on the 23rd. The freeze on the 28th did no material damage. LIBERTY.—Peach buds began to swell during the latter portion of the month. NEWBERRY.—The first plum tree blooms were noted on the 24th. SANTUC.—The month was mild and had an unusual number of fair days. Sleet fell on two dates. STATEBURG.—The first half of the month had considerable cloudiness and rain, with low temperatures, but the second half was more favorable for outdoor work. SUMMERVILLE.—The thunderstorm on the 21st was an unusually heavy one for February. TRENTON.—The precipitation was 4.91 inches less than the February average, and is 3.71 inches less than the normal for the first two months of the year.

## FEBRUARY WEATHER.

There is no other month, in South Carolina, that has so variable weather as there has been noted in February. The temperature range that has been recorded during the past twelve years has been between a maximum of 86° at Florence in 1904, and a minimum of -11° at Shaw's Fork and Santuc in 1899. On three years the minimum has fallen to, or below, zero in some portion of the State, and on five years it has risen to, or above, 80°. The monthly mean temperature has ranged from 37.4° in 1895 to 50.0° in 1897. Although it is not shown by the following tables, the changes from warm to cold and from cold to warm are, at times, sudden and violent, especially the first named ones. The records do not indicate that one portion of the month has been either much warmer or decidedly colder than any other portion, although the daily normals that have been deduced from the daily mean temperatures are about 4° higher at the end than at the beginning of the month. There is a marked difference in temperature between the extreme northwestern and the extreme southeastern portions. In the former, the weather continues as cold and wintry as during the preceding mid-winter month; in the latter portion the conditions are usually typically springlike, as early vegetation becomes green, and fruit trees begin to bud and bloom. Light to killing frosts usually occur in the southeastern counties, but it is only rarely that the temperature falls to freezing, and more rarely that the ground freezes.

The precipitation also has been variable in amount, as the State average range has been between a maximum amount of 7.80 inches, in 1897, and a minimum amount of 0.86 inch, in 1898. The local monthly amounts have ranged between 12.48 inches at Clemson College, in 1903, and 0.34 inch at St. George, in 1898. The table shows that the wettest February (1897) was followed one year later by the driest one (1898).

The snowfall during this month is usually heavier than on any other month. There has been some snow in the State in each February during the last twelve years, but in 1903 the snowfall was only a trace, and that amount was recorded at only two stations. The greatest accumulated depth that has been recorded was 18.5 inches at Holland, Anderson County, in 1895, and the next greatest depth was 14.7 inches at Stateburg, in 1899. Snow storms are most frequent, as might be expected, over the northern half of the State, while it is only

on occasional years that snow falls in the southeastern group of counties, although in 1899 it fell to a depth of 2.2 inches at Beaufort, which was the heaviest snowfall ever recorded in that county.

There are usually more clear days than either partly cloudy or cloudy ones, and the average number of days with 0.01 inch, or more, precipitation has ranged between 3, in 1898, and 12, in 1899.

The following tables show the more important climatic features, in State averages, for the last 12 years.

Temperature, Rainy Days and Wind.

| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|
| 1894 .. | 48.9       | 57.7      | 40.1      | 76            | 16           | 10          | sw.               |
| 1895 .. | 37.4       | 45.5      | 29.2      | 78            | -6           | 7           | nw.               |
| 1896 .. | 48.2       | 59.8      | 37.7      | 81            | 5            | 8           | sw.               |
| 1897 .. | 50.0       | 59.3      | 40.7      | 83            | 15           | 11          | sw.               |
| 1898 .. | 44.5       | 56.6      | 32.4      | 78            | 10           | 3           | w.                |
| 1899 .. | 43.0       | 52.5      | 33.4      | 80            | -11          | 12          | w.                |
| 1900 .. | 44.0       | 53.9      | 34.0      | 78            | 1            | 10          | w.                |
| 1901 .. | 43.2       | 53.7      | 32.8      | 78            | 7            | 6           | nw.               |
| 1902 .. | 40.6       | 50.1      | 31.1      | 77            | 11           | 8           | nw.               |
| 1903 .. | 49.0       | 59.5      | 38.5      | 81            | 11           | 10          | sw.               |
| 1904 .. | 45.2       | 54.7      | 35.6      | 86            | 15           | 9           | ne.               |
| 1905 .. | 38.9       | 48.0      | 29.8      | 72            | 0            | 9           | ne.               |
| 1906 .. | 46.0       | 57.2      | 34.8      | 76            | 12           | 6           | ne.               |

Precipitation.

| Year.    | State Average. | Greatest Monthly. | Place.           | Least Monthly. | Place.       |
|----------|----------------|-------------------|------------------|----------------|--------------|
| 1894.... | 4.35           | 6.61              | Trenton.         | 2.88           | Cheraw.      |
| 1895.... | 3.07           | 4.47              | Charleston.      | 1.20           | Shaw's Fork. |
| 1896.... | 6.13           | 8.70              | Pinopolis.       | 3.55           | Port Royal.  |
| 1897.... | 7.80           | 10.50             | Georgetown.      | 6.08           | Spartanburg. |
| 1898.... | 0.86           | 2.00              | Georgetown.      | 0.34           | St. George.  |
| 1899.... | 6.98           | 12.30             | Trenton.         | 3.23           | Allendale.   |
| 1900.... | 5.77           | 10.61             | Holland.         | 1.86           | Yemassee.    |
| 1901.... | 3.08           | 5.40              | Georgetown.      | 1.28           | Winnsboro.   |
| 1902.... | 5.89           | 10.51             | Barksdale.       | 2.38           | Yemassee.    |
| 1903.... | 7.03           | 12.48             | Clemson College. | 2.07           | Charleston.  |
| 1904.... | 3.59           | 5.35              | Walterboro.      | 1.95           | Allendale.   |
| 1905.... | 5.21           | 8.20              | Blackville.      | 2.87           | Barksdale.   |
| 1906.... | 2.58           | 7.26              | Georgetown.      | 0.96           | Greenville.  |

## ERRATA.

The following corrections should be made on the January, 1906, Monthly Report. Pages 5 and 8, Blackville, total precipitation 3.68 should be 3.88 inches; Gaffney, total precipitation 8.90 should be 9.10 inches. On page 8, Blackville, precipitation on the 26th 0.25 should be 1.25 inches. On page 6, Newberry, maximum temperature on the 24th 50° should be 62°; at Heath Springs the maximum temperature on the 24th should be changed from 52 to 58; at Yorkville the maximum temperature on the 24th, 46 should be 54, and on the 25th, 35 should be 38.

## TITLE OF PUBLICATION CHANGED.

Beginning with the present issue, this publication will be known as the Monthly Report of the South Carolina Section of the Climatological Service of the Weather Bureau. It succeeds the Climate and Crop Service series of monthly reports heretofore published in this form. The crop feature is omitted, but in other respects the character of the publication is unchanged.



## CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY, 1906.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature in degrees Fahrenheit. |                            |          |       |         |       | Precipitation in inches. |        |                            |                       |                             | Sky.               |                    |                            |                     | Observers.              |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, (unmelted.) | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. |                         |
| Aiken                                 | Aiken        | 565             | 22                      | 46.9                               | -2.6                       | 72       | 20    | 21      | 28    | 33                       | 2.52   | -1.59                      | 1.00                  | 0                           | 4                  | 23                 | 3                          | 2                   | C. F. McGahan, M. D.    |
| Allendale                             | Barnwell     | 186             | 18                      | 51.3                               | +4.0                       | 73       | 14    | 28      | 28    | 35                       | 2.36   | -1.13                      | 0.96                  | 0                           | 3                  | 19                 | 0                          | 9                   | C. A. Glover.           |
| Anderson                              | Anderson     | 764             | 5                       | 45.2                               | +2.3                       | 70       | 20    | 19      | 3     | 34                       | 1.16   | -4.78                      | 0.45                  | 1.4                         | 6                  | 15                 | 5                          | 8                   | H. H. Russell.          |
| Augusta, Ga.                          | Richmond     | 134             | 35                      | 47.5                               | -2.9                       | 71       | 20    | 25      | 3     | 36                       | 2.12   | -1.84                      | 0.92                  | 0                           | 9                  | 14                 | 8                          | 6                   | Weather Bureau.         |
| Barksdale                             | Laurens      | 680             | 5                       | 43.6                               | .....                      | 70       | 21    | 19      | 3     | 33                       | 1.10   | .....                      | 0.50                  | 1.0                         | 4                  | 16                 | 6                          | 3                   | J. T. Garrett.          |
| Batesburg                             | Lexington    | 656             | 18                      | 45.0                               | -0.4                       | 72       | 22    | 20      | *3    | 39                       | 2.58   | -3.65                      | 0.94                  | 0                           | 6                  | 16                 | 1                          | 11                  | E. J. Hite.             |
| Beaufort                              | Beaufort     | 28              | 20                      | 50.6                               | -2.2                       | 73       | 24    | 28      | 3     | 34                       | 2.39   | -1.13                      | 0.89                  | 0                           | 9                  | 16                 | 7                          | 5                   | S. M. Benton.           |
| Bennettsville                         | Marlboro     | 151             | 5                       | 44.3                               | .....                      | 73       | 25    | 20      | *3    | 37                       | 2.77   | .....                      | 1.21                  | 0.4                         | 7                  | 15                 | 8                          | 2                   | C. S. McCall.           |
| Blackville                            | Barnwell     | 296             | 18                      | 47.6                               | +1.7                       | 74       | *20   | 24      | 3     | 39                       | 3.14   | -1.85                      | 0.70                  | 0                           | 10                 | 18                 | 3                          | 7                   | G. D. C. Lange.         |
| Hairs                                 | Fairfield    | 293             | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.21   | .....                      | 0.32                  | 2.1                         | 5                  | 19                 | 3                          | 6                   | T. S. McMeekin.         |
| Bowman                                | Orangeburg   | 160             | 5                       | 47.4                               | .....                      | 72       | *20   | 24      | 3     | 38                       | 3.44   | .....                      | 0.90                  | 0                           | 6                  | 14                 | 8                          | 6                   | B. O. Evans.            |
| Calhoun Falls                         | Abbeville    | 508             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 2.53   | -1.91                      | 0.72                  | 0.5                         | 5                  | 23                 | 0                          | 5                   | P. J. Pfeiffer.         |
| Camden                                | Kershaw      | 222             | 40                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 2.34   | -1.55                      | 0.72                  | 1.0                         | 7                  | 16                 | 6                          | 6                   | W. C. Brown.            |
| Chippells                             | Newberry     | 402             | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.34   | .....                      | 0.36                  | 2.0                         | 6                  | 17                 | 2                          | 9                   | W. F. Glenn.            |
| Charleston                            | Charleston   | 48              | 37                      | 49.3                               | -3.5                       | 70       | 25    | 30      | 3     | 24                       | 2.68   | -1.24                      | 1.04                  | 0                           | 7                  | 14                 | 6                          | 8                   | Weather Bureau.         |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 28                      | 43.4                               | -1.6                       | 68       | 20    | 17      | 3     | 26                       | 1.65   | -2.86                      | 1.05                  | 0                           | 8                  | 12                 | 11                         | 5                   | Weather Bureau.         |
| Cheraw (1)                            | Chesterfield | 144             | 18                      | 43.5                               | -2.8                       | 72       | 20    | 18      | *3    | 41                       | 2.97   | -1.35                      | 1.30                  | 0.5                         | 6                  | 15                 | 6                          | 7                   | W. R. Godfrey.          |
| Cheraw (2)                            | .....        | 144             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 2.97   | -1.80                      | 0.98                  | 0.5                         | 10                 | 16                 | 6                          | 6                   | Jno. H. Powe.           |
| Clarks Hill                           | Edgefield    | 500             | 4                       | 46.1                               | .....                      | 72       | 20    | 20      | 3     | 36                       | 1.97   | .....                      | 0.72                  | 0                           | 5                  | 12                 | 7                          | 9                   | Wm. S. Middleton.       |
| Clemson College                       | Oconee       | 850             | 15                      | 45.6                               | +3.8                       | 69       | 24    | 17      | 3     | 36                       | 1.08   | -4.37                      | 0.53                  | 0.5                         | 4                  | 17                 | 6                          | 5                   | Jno. N. Hook.           |
| Columbia                              | Richland     | 351             | 19                      | 46.6                               | -1.6                       | 71       | 20    | 22      | 3     | 32                       | 1.60   | -2.58                      | 0.66                  | 0                           | 7                  | 14                 | 7                          | 7                   | Central Office.         |
| Conway                                | Horry        | 25              | 14                      | 47.2                               | .....                      | 76       | 25    | 21      | 3     | 38                       | 5.60   | -1.02                      | 2.10                  | 6                           | 6                  | 17                 | 0                          | 11                  | Miss M. G. Quattlebaum. |
| Darlington                            | Darlington   | 175             | 11                      | 44.9                               | .....                      | 73       | 25    | 20      | *3    | 37                       | 3.48   | -1.48                      | 1.58                  | 0                           | 7                  | 17                 | 4                          | 7                   | Miss F. G. McIver.      |
| Dillon                                | Marion       | 100             | 2                       | 45.5                               | .....                      | 75       | 25    | 20      | *3    | 42                       | 6.46   | .....                      | 2.00                  | 1.0                         | 10                 | .....              | .....                      | .....               | A. E. Rowell.           |
| Due West                              | Abbeville    | 730             | 5                       | 46.7                               | .....                      | 69       | 24    | 21      | 3     | 30                       | 2.00   | .....                      | 1.29                  | 0.5                         | 5                  | 16                 | 6                          | 5                   | Rev. O. Y. Bonner.      |
| Edisto                                | Bamberg      | 127             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.94   | -0.77                      | 0.93                  | .....                       | 5                  | 16                 | 5                          | 7                   | Mrs. M. Thompson.       |
| Effingham                             | Florence     | 106             | 14                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.23   | +1.61                      | 2.00                  | 0                           | 5                  | 18                 | 0                          | 9                   | H. B. McCall.           |
| Enoree                                | Spartanburg  | 987             | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.20   | .....                      | 0.90                  | 0                           | 3                  | 20                 | 0                          | 8                   | J. W. King.             |
| Florence                              | Florence     | 136             | 18                      | 44.1                               | -2.9                       | 73       | 25    | 22      | 3     | 37                       | 4.01   | -1.12                      | 1.30                  | 0                           | 7                  | 18                 | 0                          | 10                  | H. K. Gilbert.          |
| Gaffney                               | Cherokee     | 893             | 10                      | 43.6                               | .....                      | 70       | *19   | 15      | 4     | 38                       | 1.01   | -2.87                      | 0.60                  | 0                           | 5                  | 20                 | 2                          | 6                   | B. F. Camp.             |
| Georgetown                            | Georgetown   | 12              | 13                      | 48.2                               | +0.3                       | 72       | *24   | 20      | 16    | 33                       | 7.26   | -3.96                      | 2.80                  | 0                           | 9                  | 14                 | 0                          | 14                  | Reid Whitford.          |
| Greenville                            | Greenville   | 980             | 14                      | 40.4                               | +0.2                       | 67       | *14   | 14      | *3    | 44                       | 0.96   | -3.92                      | 0.40                  | 0.2                         | 4                  | 19                 | 1                          | 8                   | Mrs. S. A. Crittenden.  |
| Greenwood                             | Greenwood    | 671             | 18                      | 43.2                               | +0.6                       | 70       | 20    | 21      | *3    | 34                       | 1.89   | -3.00                      | 0.76                  | 0.5                         | 4                  | 21                 | 0                          | 7                   | W. M. Calhoun.          |
| Heath Springs                         | Lancaster    | 568             | 5                       | 42.9                               | .....                      | 70       | 24    | 17      | *3    | 34                       | 1.60   | .....                      | 0.75                  | 1.0                         | 5                  | 19                 | 3                          | 6                   | J. A. Weaver.           |
| Kingstree (1)                         | Williamsburg | 54              | 18                      | 50.6                               | +4.0                       | 72       | *20   | 29      | 28    | 33                       | 4.19   | +0.20                      | 1.45                  | 0                           | 8                  | 17                 | 3                          | 8                   | J. A. Scott.            |
| Kingstree (2)                         | .....        | 54              | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.85   | -0.27                      | 1.10                  | 0                           | 6                  | 17                 | 3                          | 8                   | A. O. Matthews.         |
| Liberty                               | Pickens      | 900             | 12                      | 45.1                               | -3.9                       | 69       | 20    | 12      | 5     | 39                       | 1.60   | -3.83                      | 1.10                  | 0.5                         | 5                  | 18                 | 6                          | 4                   | Jno. T. Boggs.          |
| Little Mountain                       | Newberry     | 630             | 13                      | 45.8                               | +0.5                       | 71       | *20   | 20      | 3     | 30                       | 1.30   | -3.90                      | 0.58                  | 1.2                         | 5                  | 14                 | 7                          | 7                   | John M. Sease, M. D.    |
| Lugoff                                | Kershaw      | 168             | 5                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | W. J. Burdell, M. D.    |
| Newberry                              | Newberry     | 502             | 2                       | 44.8                               | +1.4                       | 71       | *20   | 20      | 3     | 36                       | 1.36   | -4.36                      | 0.50                  | 1.0                         | 6                  | 11                 | 9                          | 8                   | W. G. Peterson.         |
| Pelzer                                | Anderson     | 873             | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 1.18   | .....                      | 0.43                  | 0                           | 6                  | 18                 | 4                          | 6                   | John M. Ward.           |
| Pinopolis                             | Berkeley     | 54              | 13                      | 48.0                               | +0.3                       | 70       | *24   | 28      | 3     | 25                       | 1.97   | -2.73                      | 0.47                  | 0                           | 7                  | 15                 | 6                          | 7                   | E. P. Ravenel.          |
| St. Georges                           | Dorchester   | 109             | 18                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | .....  | .....                      | .....                 | .....                       | .....              | .....              | .....                      | .....               | W. B. Raysor.           |
| St. Matthew                           | Orangeburg   | 260             | 18                      | 46.0                               | -0.4                       | 71       | 25    | 24      | *3    | 34                       | 3.39   | -1.37                      | 0.85                  | 0                           | 9                  | 19                 | 0                          | 9                   | J. S. Warnamaker.       |
| St. Stephen                           | Berkeley     | 73              | 14                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 3.22   | -1.14                      | 1.00                  | 0                           | 10                 | 19                 | 0                          | 9                   | C. T. Shuler.           |
| Saluda                                | Saluda       | 536             | 5                       | 46.0                               | .....                      | 73       | 24    | 20      | *3    | 38                       | 1.38   | .....                      | 0.64                  | 1.4                         | 6                  | 19                 | 2                          | 7                   | Alvin Etheridge.        |
| Santuc                                | Union        | 512             | 13                      | 44.0                               | +1.8                       | 71       | 20    | 17      | 4     | 39                       | 1.73   | -3.31                      | 1.10                  | 0.2                         | 5                  | 17                 | 5                          | 6                   | E. W. Jeter.            |
| Savannah, Ga.                         | Chatham      | 71              | 37                      | 50.8                               | -3.5                       | 71       | 25    | 30      | 3     | 28                       | 2.59   | -0.49                      | 1.39                  | 0                           | 8                  | 11                 | 8                          | 9                   | Weather Bureau.         |
| Severn                                | Aiken        | 482             | 5                       | 43.6                               | -4.6                       | 74       | *20   | 15      | 4     | 47                       | 2.43   | -2.54                      | 0.60                  | 0                           | 10                 | 14                 | 7                          | 7                   | Geo. C. Gunter.         |
| Smiths Mills                          | Williamsburg | 62              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                    | 6.05   | -1.86                      | 2.15                  | 0                           | 5                  | 18                 | 0                          | 9                   | H. van Keuren.          |
| Society Hill                          | Darlington   | 192             | 15                      | 42.2                               | -3.0                       | 70       | 25    | 20      | *2    | 33                       | 2.43   | -2.77                      | 0.78                  | 0.5                         | 9                  | 18                 | 3                          | 7                   | J. J. Lucas.            |
| Spartanburg                           | Spartanburg  | 875             | 15                      | 42.9                               | -2.3                       | 69       | 15    | 18      | *3    | 37                       | 1.00   | -4.44                      | 0.50                  | T.                          | 5                  | 15                 | 0                          | 13                  | F. P. Robinson.         |
| Stateburg                             | Sumter       | 500             | 29                      | 47.8                               | -1.4                       | 73       | 20    | 20      | 3     | 33                       | 2.41   | -1.62                      | 0.98                  | 0                           | 5                  | 14                 | 5                          | 9                   | W. W. Anderson, M. D.   |
| Summerville                           | Dorchester   | 75              | 9                       | 49.2                               | +0.7                       | 76       | 25    | 25      | 3     | 40                       | 3.00   | -1.18                      | 1.35                  | 0                           | 8                  | 13                 | 7                          | 8                   | Miss E. H. Gadsden.     |
| Sumter                                | Sumter       | 169             | 5                       | 48.2                               | .....                      | 75       | *20   | 21      | *3    | 45                       | 3.10   | .....                      | 1.23                  | 0                           | 7                  | 15                 | 6                          | 7                   | H. A. Moses.            |
| Trenton                               | Edgefield    | 620             | 13                      | 46.8                               | -3.0                       | 69       | 20    | 22      | 3     | 27                       | 1.78   | -4.91                      | 0.80                  | 0                           | 6                  | 15                 | 7                          | 6                   | C. A. Long.             |
| Trials                                | Berkeley     | 85              | 20                      | 48.0                               | -1.0                       | 73       | 20    | 24      | 4     | 39                       | 3.79   | -0.31                      | 1.73                  | 0                           | 8                  | 13                 | 8                          | 7                   | Etsell Gaillard.        |
| Walhalla                              | Oconee       | 1061            | 15                      | 44.7                               | -0.1                       | 69       | 19    | 15      | 3     | 36                       | 1.56   | -2.76                      | 0.90                  | 0                           | 3                  | 18                 | 7                          | 3                   | Miss Laura Isbell.      |
| Walterboro                            | Colleton     | 69              | 3                       | 49.6                               | .....                      | 76       | 20    | 24      | 3     | 45                       | 3.26   | .....                      | 1.06                  | 0                           | 8                  | 17                 | 5                          | 6                   | J. A. Westerberg.       |
| Wilmington, N. C.                     | New Hanover  | 52              | 37                      | 46.0                               | -3.8                       | 74       | 25    | 20      | 3     | 29                       | 2.89   | -0.34                      | 1.55                  | 0                           | 6                  | 15                 | 5                          | 8                   | Weather Bureau.         |
| Winnabow                              | Fairfield    | 545             | 17                      | 47.0                               | -0.4                       | 70       | 19    | 24      | 4     | 31                       | 1.48   | -3.13                      | 0.50                  | 0                           | 4                  | 18                 | 6                          | 4                   | John W. Seigler.        |
| Winthrop College                      | York         | 690             | 7                       | 44.3                               | -1.5                       | 70       | 20    | 17      | 3     | 31                       | 1.40   | -3.29                      | 0.90                  | T.                          | 5                  | 19                 | 7                          | 2                   | E. R. Rivers.           |
| Yemassee                              | Beaufort     | 23              | 11                      | 47.6                               | -1.7                       | 75       | 25    | 26      | 3     | 38                       | 3.07   | -1.39                      | 0.66                  | 0                           | 11                 | 17                 | 1                          | 10                  | J. G. Hutson.           |
| Yorkville                             | York         | 680             | 18                      | 45.6                               | +0.6                       | 75       | 20    | 19      | 3     | 35                       | 1.71   | -3.06                      | 0.91                  | 0                           | 5                  | 12                 | 8                          | 8                   | J. R. Schorb.           |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 46.0                               | -0.7                       | 76       | 25    | 12      | 5     | 45                       | 2.58   | -2.20                      | 2.80                  | 0.3                         | 6                  | 16                 | 5                          | 7                   | ne.                     |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
 § Exposed not standard. \* On other dates also a indicates 1 day missing, b, 2 days, etc.



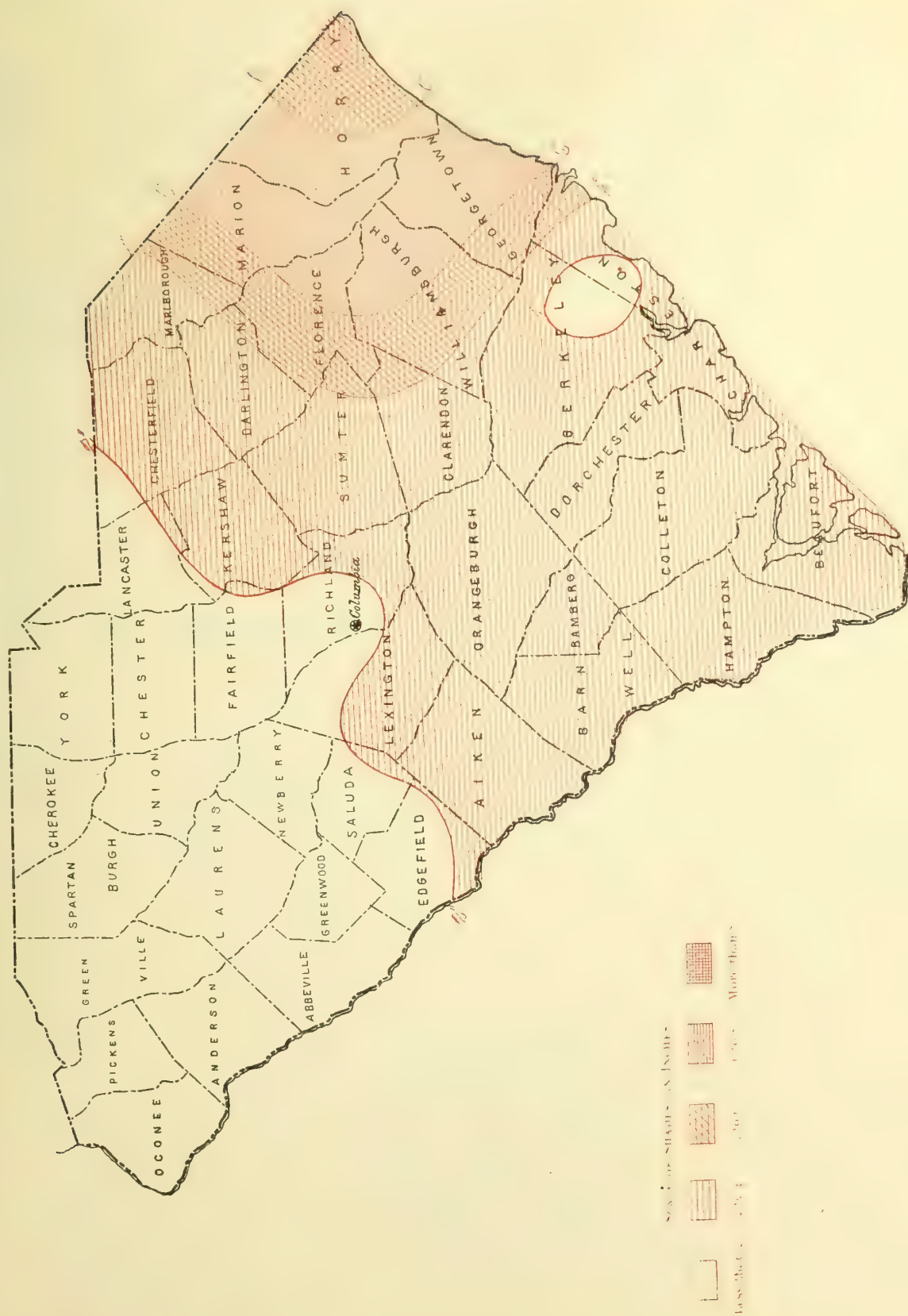
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING FEBRUARY, 1908.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR FEBRUARY, 1906.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, FEBRUARY, 1906.

| STATIONS.         | Day of Month. |   |   |     |      |     |      |      |      |     |     |      |      |     |     |    |    |    |    |    |      |      |    |    |     |    |     |     |     |    |    | Total. |
|-------------------|---------------|---|---|-----|------|-----|------|------|------|-----|-----|------|------|-----|-----|----|----|----|----|----|------|------|----|----|-----|----|-----|-----|-----|----|----|--------|
|                   | 1             | 2 | 3 | 4   | 5    | 6   | 7    | 8    | 9    | 10  | 11  | 12   | 13   | 14  | 15  | 16 | 17 | 18 | 19 | 20 | 21   | 22   | 23 | 24 | 25  | 26 | 27  | 28  | 29  | 30 | 31 |        |
| Aiken             |               |   |   |     |      | .12 |      | 1.00 |      |     |     | .80  |      |     |     |    |    |    |    |    | .60  |      |    |    |     |    |     |     |     |    |    | 2.55   |
| Allendale         |               |   |   |     |      | .50 |      |      |      |     |     | .90  |      |     |     |    |    |    |    |    | .90  |      |    |    |     |    |     |     |     |    |    | 2.37   |
| Anderson          |               |   |   |     | .19  | .01 | .15  | .06  | .05  |     |     | .26  | .45  |     | .19 |    |    |    |    |    | .45  |      |    |    |     |    |     |     |     |    |    | 1.17   |
| Augusta, Ga.      |               |   |   |     | T.   |     | .08  | .92  | .01  |     |     |      |      |     |     |    |    |    |    |    | .19  |      |    |    |     |    | .01 |     |     |    |    | 2.11   |
| Barksdale         |               |   |   |     | T.   |     | .10  | .40  |      |     |     |      |      |     |     |    |    |    |    |    | .50  | T.   |    |    |     |    | .10 |     |     |    |    | 1.10   |
| Batesburg         |               |   |   |     |      | .67 | .94  |      |      |     |     | .38  | .10  |     |     |    |    |    |    |    | .38  | .11  |    |    |     |    |     |     |     |    |    | 2.58   |
| Beaufort          |               |   |   |     | .09  | .22 | .72  |      |      |     | .10 | .89  | .01  | .02 |     |    |    |    |    |    | .28  |      |    |    |     |    | .06 |     |     |    |    | 2.30   |
| Bennettsville     |               |   |   |     | .10  | T.  | .04  | .21  |      |     |     | .65  |      | .01 | .02 |    |    |    |    |    | .38  |      |    |    |     |    |     | .29 |     |    |    | 2.77   |
| Blackville        |               |   |   | .27 |      |     | .12  | .60  | .33  |     |     | .70  | .27  | .04 |     |    |    |    |    |    | .56  | .13  |    |    |     |    | .12 |     |     |    |    | 3.14   |
| Blairs            |               |   |   |     |      |     | .01  | .20  | .32  |     |     | .10  |      |     |     |    |    |    |    |    | .28  | .30  |    |    |     |    |     |     |     |    |    | 1.21   |
| Bowman            |               |   |   |     | .28  |     | .76  | .64  |      |     | T.  | .90  |      | .06 |     |    |    |    |    |    | .80  |      |    |    |     |    |     |     |     |    |    | 3.44   |
| Calhoun Falls     |               |   |   |     |      | .27 | .58  | .49  |      |     |     | .72  |      |     |     |    |    |    |    |    | .47  |      |    |    |     |    |     |     |     |    |    | 2.53   |
| Camden            |               |   |   |     |      | .04 | .42  | .72  |      |     |     | .30  | .36  |     |     |    |    |    |    |    | .30  | .20  |    |    |     |    |     |     |     |    |    | 2.34   |
| Chappells         |               |   |   |     | T.   |     | .04  | .66  | .60  |     |     | .26  | T.   | T.  | T.  |    |    |    |    |    | .36  | .02  |    |    |     |    |     |     |     |    |    | 1.34   |
| Charleston        |               |   |   |     | .15  | T.  | .15  | .68  |      |     | .02 | 1.02 |      |     |     |    |    |    |    |    | .03  |      |    |    |     |    |     |     |     |    |    | 2.08   |
| Charlotte, N. C.  |               |   |   | .02 | .15  |     | .33  | .01  |      |     | T.  | .04  |      |     |     |    |    |    |    |    | 1.05 |      |    |    | .02 |    | .03 |     |     |    |    | 1.65   |
| Cheraw(1)         |               |   |   |     | T.   |     | .05  |      | 1.30 |     |     | .19  | .52  |     |     |    |    |    |    |    |      | .71  |    |    |     |    | T.  | .20 |     |    |    | 2.97   |
| Cheraw(2)         |               |   |   |     | .02  |     | .08  | .26  | .98  |     |     | .11  | .62  |     |     |    |    |    |    |    | .06  | .65  |    |    |     |    | .03 | .16 |     |    |    | 2.97   |
| Clark's Hill      |               |   |   |     |      | .50 | .72  |      |      |     |     | .30  |      | .35 |     |    |    |    |    |    | .10  |      |    |    |     |    |     |     |     |    |    | 1.97   |
| Clemson College   |               |   |   |     |      | .05 |      |      |      |     |     | .43  |      |     |     |    |    |    |    |    | .53  | .07  |    |    |     |    |     |     |     |    |    | 1.08   |
| Columbia          |               |   |   |     | .03  | T.  | .13  | .45  |      |     | .01 | .65  |      | T.  |     |    |    |    |    |    | .32  |      |    |    |     |    |     |     |     |    |    | 1.60   |
| Conway            |               |   |   |     | T.   |     | T.   | .95  | 1.60 |     |     | .25  | 2.10 |     |     |    |    |    |    |    |      | .65  |    |    |     |    | .05 | T.  |     |    |    | 5.60   |
| Darlington        |               |   |   |     | .08  | T.  | .13  | 1.58 | .02  |     |     | 1.45 |      |     |     |    |    |    |    |    | .17  |      |    |    |     |    |     |     |     |    |    | 5.60   |
| Dillon            |               |   |   |     | .17  | T.  | .10  | 1.83 | .19  |     |     | 2.00 | 1.27 | T.  |     |    |    |    |    |    | .72  | .02  |    |    |     |    | .12 |     |     |    |    | 6.46   |
| Due West          |               |   |   |     | .13  |     | .16  | .28  | .14  |     |     | T.   |      |     |     |    |    |    |    |    | 1.29 |      |    |    |     |    |     |     |     |    |    | 2.00   |
| Edisto            |               |   |   |     |      |     | .93  | .84  |      |     |     | .84  | .40  |     |     |    |    |    |    | T. | .93  |      |    |    |     |    |     |     |     |    |    | 3.94   |
| Effingham         |               |   |   |     | T.   |     | T.   | .75  | 1.78 | .10 | T.  |      |      |     |     |    |    |    |    |    |      | .95  |    |    |     |    | T.  |     |     |    |    | 6.23   |
| Enoree            |               |   |   |     |      | .20 |      |      | .90  |     |     |      |      |     |     |    |    |    |    |    |      |      |    |    |     |    |     |     |     |    |    | 1.20   |
| Florence          |               |   |   |     | .09  |     | .05  | .80  | 1.12 |     |     | 1.30 | .45  |     |     |    |    |    |    |    |      |      |    |    |     |    | .20 |     |     |    |    | 4.01   |
| Gaffney           |               |   |   |     | .13  |     |      | .04  | .20  |     |     |      |      |     |     |    |    |    |    |    | .60  | .04  |    |    |     |    |     | T.  | .80 |    |    | 1.01   |
| Georgetown        |               |   |   |     | .15  |     | 1.08 | 1.10 |      |     | .50 | 2.80 | .05  | T.  |     |    |    |    |    |    | .60  | .18  |    |    |     |    | T.  |     |     |    |    | 7.26   |
| Greenville        |               |   |   |     | .14  |     | .02  |      |      |     |     | .40  |      |     |     |    |    |    |    |    | .05  | .35  |    |    |     |    |     | T.  |     |    |    | 0.96   |
| Greenwood         |               |   |   |     |      |     | .75  |      |      |     |     | .28  |      |     |     |    |    |    |    |    | .76  | .10  |    |    |     |    |     |     |     |    |    | 1.89   |
| Heath Springs     |               |   |   |     |      |     | .10  | .75  |      |     |     | .33  |      |     |     |    |    |    |    |    | .35  |      |    |    |     |    | .07 |     |     |    |    | 1.60   |
| Kingstree(1)      |               |   |   |     | .15  |     | .05  | .80  | .90  |     |     | .35  | 1.45 |     |     |    |    |    |    |    | .45  |      |    |    |     |    | .04 |     |     |    |    | 4.19   |
| Kingstree(2)      |               |   |   |     |      | .05 |      | .90  | .50  |     |     | .70  | 1.10 |     | T.  |    |    |    |    |    | .60  |      |    |    |     |    | T.  |     |     |    |    | 3.85   |
| Liberty           |               |   |   |     | .15  |     | .05  | T.   |      |     |     | .20  |      |     |     |    |    |    |    |    | 1.10 |      |    |    | T.  |    |     |     |     |    |    | 1.60   |
| Little Mountain   |               |   |   |     | .05  |     | .12  | .58  |      |     |     | .26  |      |     |     |    |    |    |    |    | .29  |      |    |    |     |    | .10 |     |     |    |    | 1.30   |
| Lugoff            |               |   |   |     |      |     |      |      |      |     |     |      |      |     |     |    |    |    |    |    |      |      |    |    |     |    |     |     |     |    |    |        |
| Newberry          |               |   |   |     | .05  | T.  | .12  | .48  |      |     |     | .18  |      | .03 |     |    |    |    |    |    | .50  |      |    |    |     |    |     | T.  |     |    |    | 1.36   |
| Pelzer            |               |   |   |     | 1.20 |     | .05  |      | .04  |     |     | .42  |      |     |     |    |    |    |    |    | .43  | T.   |    |    |     |    |     |     |     |    |    | 1.18   |
| Pinopolis         |               |   |   |     | .47  |     | .19  | .40  | .20  |     | .16 | .45  |      |     |     |    |    |    |    |    | .10  |      |    |    |     |    |     |     |     |    |    | 1.97   |
| St. Georges       |               |   |   |     |      |     |      |      |      |     |     |      |      |     |     |    |    |    |    |    |      |      |    |    |     |    |     |     |     |    |    |        |
| St. Matthew       |               |   |   |     | .15  |     | .10  | .40  | .69  |     |     | .42  | .33  | T.  |     |    |    |    |    |    | .85  | .35  |    |    |     |    | .10 |     |     |    |    | 3.39   |
| St. Stephen       |               |   |   |     | .20  | .06 | .05  | .55  | .95  |     |     | .25  | 1.00 | .01 |     |    |    |    |    |    |      | .41  |    |    |     |    | .04 |     |     |    |    | 3.22   |
| Saluda            |               |   |   |     | .05  |     | .14  | .64  | T.   |     | T.  | .30  |      | T.  |     |    |    |    |    |    | .24  |      |    |    |     |    | .01 |     |     |    |    | 1.38   |
| Santuc            |               |   |   |     | .06  | T.  | .03  | .34  | .20  |     |     | .20  |      |     |     |    |    |    |    |    | 1.10 |      |    |    |     |    |     | T.  |     |    |    | 1.73   |
| Savannah, Ga.     |               |   |   |     | T.   |     | .23  | .67  | .02  |     | .32 | 1.07 |      | .01 | T.  |    |    |    |    |    | .21  |      |    |    |     |    | .06 |     |     |    |    | 2.59   |
| Severn            |               |   |   |     | .05  |     | .66  | .58  | .50  |     |     | .60  | .66  | T.  | .04 |    |    |    |    |    | .28  | .15  |    |    |     |    | .05 |     |     |    |    | 2.43   |
| Smiths Mills      |               |   |   |     | T.   | T.  | 1.20 | 1.30 |      |     | .20 | 2.15 |      |     |     |    |    |    |    |    | .06  | 1.20 |    |    |     |    | .05 |     |     |    |    | 6.05   |
| Society Hill      |               |   |   | .08 | .02  | .05 | .68  | .78  |      |     | .29 |      |      |     |     |    |    |    |    |    |      |      |    |    |     |    |     | T.  |     |    |    | 2.43   |
| Spartanburg       |               |   |   | .12 |      |     | T.   | .22  |      |     |     | .11  |      |     |     |    |    |    |    |    | .42  |      |    |    |     |    | .05 |     |     |    |    | 2.43   |
| Stateburg         |               |   |   |     | .10  |     | .19  | .98  |      |     |     | .87  |      |     |     |    |    |    |    |    | .50  | .05  |    |    |     |    | T.  |     |     |    |    | 1.00   |
| Summerville       |               |   |   |     | .08  |     | .22  | .84  |      |     |     | 1.35 | .08  | .13 | T.  |    |    |    |    |    | .27  |      |    |    |     |    |     |     |     |    |    | 2.41   |
| Sumter            |               |   |   |     | .30  |     | .05  | 1.05 |      |     |     | 1.23 |      | .01 |     |    |    |    |    |    | .41  |      |    |    | T.  |    |     | .08 |     |    |    | 3.00   |
| Trenton           |               |   |   |     |      | T.  | .27  | .80  | .03  |     |     | .22  |      | .11 |     |    |    |    |    |    | .41  |      |    |    |     |    | .05 |     |     |    |    | 3.10   |
| Triad             |               |   |   |     | .11  |     | 1.05 | .20  |      |     |     | 1.73 | .02  | T.  |     |    |    |    |    |    | .35  |      |    |    |     |    |     |     |     |    |    | 1.78   |
| Walhalla          |               |   |   |     |      |     |      |      |      |     |     | .56  |      |     |     |    |    |    |    |    | .90  |      |    |    |     |    | .06 |     |     |    |    | 3.79   |
| Walterboro        |               |   |   |     | .07  |     | .23  | .95  |      |     | .06 | 1.06 |      | .11 |     |    |    |    |    |    | .90  |      |    |    |     |    | .10 |     |     |    |    | 1.56   |
| Wilmington, N. C. |               |   |   |     | T.   | T.  | .07  | 1.48 |      |     |     | .68  | .40  |     |     |    |    |    |    |    | .71  |      |    |    |     |    | .08 |     |     |    |    | 3.26   |
| Wimmsboro         |               |   |   |     | T.   |     | .50  |      |      |     | .35 | .43  |      |     |     |    |    |    |    |    | .18  |      |    |    |     |    |     |     |     |    |    | 2.89   |
| Winthrop College  |               |   |   |     |      | T.  | .40  | .03  |      |     | T.  | .04  |      |     |     |    |    |    |    |    | .20  |      |    |    |     |    |     |     |     |    |    | 1.48   |
| Yemassee          |               |   |   | .10 | .01  | .13 | .28  | .63  |      |     |     | .58  | .59  | .02 | T.  |    |    |    |    |    | .90  | T.   |    |    | T.  |    | .03 |     |     |    |    | 1.40   |
| Yorkville         |               |   |   | .16 |      |     | .32  |      |      |     |     | .20  |      |     |     |    |    |    |    |    | .02  | .66  |    |    |     |    | .05 |     |     |    |    | 3.07   |
|                   |               |   |   |     |      |     |      |      |      |     |     |      |      |     |     |    |    |    |    |    | .91  |      |    |    |     |    | .12 |     |     |    |    | 1.71   |

T. indicates trace, less than .01 inch.



61.03  
JNEC  
U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MARCH, 1906.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

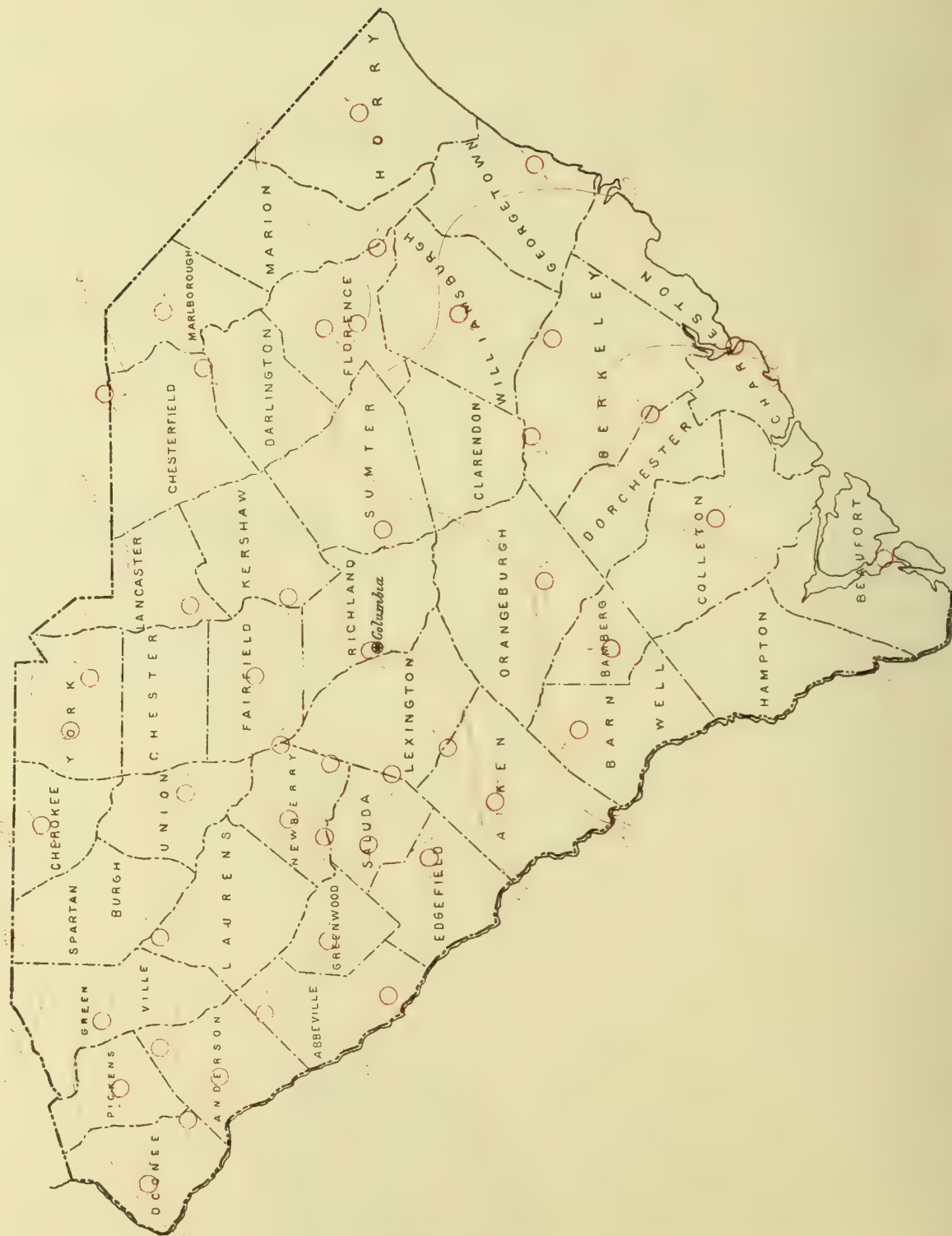


RALEIGH, N. C.  
WEATHER BUREAU OFFICE

MAY 2, 1906.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MARCH, 1906.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. IX.

COLUMBIA, S. C., MARCH, 1906.

No. 3.

## GENERAL SUMMARY.

The mean temperature for the current March was as low as the lowest of record for the last thirteen years, the previous coldest March having been that of 1900. The mean of the daily maximum temperatures was the lowest of record, and the mean of the daily minimum temperatures was the second lowest of record, as March, 1900, had a mean minimum 0.2° lower. Higher maximum temperatures were recorded in 11 of the 13 years, but in 1900 the highest maximum was only 79°, or three degrees lower than it was this year. The coldest period was at the beginning of the third decade, generally on the 21st, when minimum temperatures of 32°, or lower, were noted at every station except at Beaufort, Charleston and Kingstree, and thin ice was noted over the entire State on that date to within a few miles of the coast. The warmest weather of the month occurred in the second decade, generally from the 11th to the 14th, inclusive, after which the temperature was below normal the greater portion of the time to the close of the month.

The precipitation was in excess of the normal amount over the State except that the stations at Aiken and Charleston reported slight deficiencies. The heaviest rainfall occurred in the extreme northwestern counties in the mountain districts, and from thence the amounts decreased in quite regular gradation toward the coast. This was a reversal of the preceding February rainfall distribution. There were five distinct periods during which precipitation was recorded at every station, as follows: On the 3rd, the 8th, the 15th, the 19th, and from the 27th to the 29th, inclusive, while different localities had rain, sleet or snow on the 24th and 25th. A trace of snow was noted at Little Mountain on the 24th, and two stations reported sleet on the 25th.

There was more cloudiness than is usual to this month, but there were no destructive wind storms or any other unusual phenomena. The rivers in the central portion of the State were swollen to the danger line on the 20th by the heavy rains of the 19th.

## Temperature.

The mean temperature for March, 1906, was 51.6°, which is 2.9° below normal. The highest local mean was 57.0° at Beaufort, the lowest was 44.4° at Greenville. The extremes of temperature for the month were a maximum of 82° at Blackville on the 14th, and at Summerville and Waterboro on the 12th, and a minimum of 18° at Greenville on the 21st, making the State range 64°. The greatest local monthly range was 61° at Seivern, the least was 43° at Kingstree. The mean of the daily maximum temperatures was 62.4°, and of the daily minimum temperatures was 40.8°, making the average daily range 21.6°.

## Precipitation.

The average precipitation for the State was 5.34 inches, which is 1.41 inches above the normal amount. The greatest local monthly amount was 10.25 inches at Walhalla, the least was 3.26 inches at St. Matthews. The greatest 24-hour fall was 2.50 inches at Walhalla on the 19th. The average number of days with 0.01 inch, or more, of precipitation was 10, ranging from 4 at Bowman to 14 at Bennettsville.

HAIL.—No hail was reported during the month.

SLEET.—Sleet was reported from Santuc and Yorkville on the 25th.

SNOW.—Little Mountain, trace on the 24th.

## Wind.

The prevailing direction of the wind was from the northeast and the west at 13 stations each, from the southwest at 11 stations, from the east at 7 stations, from the south at 4 stations, and from the north and the southeast at 2 stations each.

HIGH WINDS.—At Beaufort and Columbia on the 3rd, at Bowman on the 19th, 20th, at Charleston and Somerville on the 19th, at Cheraw and Clarks Hill on the 20th, at Liberty on the 11th, at Santuc on the 2nd, and at Trial on the 15th, 19th, and 20th.

## Sunshine and Cloudiness.

The average number of clear days was 13, of partly cloudy days was 6, and of cloudy days was 12.

BAROMETER AND WIND TABLE FOR MARCH, 1906.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....     | 30.09      | 30.54    | 25    | 29.64   | 30    | 6.013           | 8.1             | 30                | W.         | 19    |
| Charleston .....      | 30.08      | 30.53    | 24    | 29.57   | 8     | 8.677           | 11.7            | 37                | SW.        | 19    |
| Charlotte, N. C. .... | 30.09      | 30.65    | 24    | 29.60   | 13    | 6.355           | 8.5             | 32                | SW.        | 3     |
| Columbia .....        | 30.08      | 30.57    | 24    | 29.61   | 15    | 6.349           | 8.5             | 30                | SW.        | 3     |
| Savannah, Ga. ....    | 30.09      | 30.50    | 24    | 29.57   | 8     | 6.157           | 8.3             | 32                | SW.        | 19    |
| Wilmington, N. C. ... | 30.07      | 30.59    | 8     | 29.49   | 8     | 7.013           | 9.4             | 37                | SW.        | 19    |
| Averages .....        | 30.08      | 30.65    | 24    | 29.49   | 8     | 6.761           | 9.1             | 37                | SW.        | 19    |

## MISCELLANEOUS PHENOMENA.

SOLAR HALOS.—Solar halos were observed at Charleston on the 10th, and at Stateburg on the 12th, 23rd, 26th.

LUNAR HALOS.—Lunar halos were observed at Blackville on the 2nd, at Charleston on the 1st, 6th, 10th; at Columbia on the 3rd, 6th; at Little Mountain on the 1st, 6th; at Santuc on the 1st, 2nd; at Stateburg on the 1st, 2nd, 3rd, 6th, 11th; and at Winthrop College on the 2nd, 11th.

DENSE FOGS.—Dense fogs of one hour, or longer, duration were noted as follows: At Beaufort on the 2nd; at Blackville on the 14th, 19th, 20th; at Columbia on the 19th; at Greenville on the 28th; at Liberty on the 9th, 10th; at Little Mountain, Newberry, and Yorkville on the 29th; at Seivern on the 13th; and at Winthrop College on the 9th, 28th.

THUNDERSTORMS.—There were 24 thunderstorms noted during the month, with 10 dates of occurrence, distributed as follows: Beaufort, Charleston 19th, 20th, 30th; Blackville, Bowman, Darlington, Winthrop College, Stateburg 29th; Columbia 8th, 19th, 28th; Liberty 27th; Newberry 15th; Santuc 19th; Seivern 14th, 20th, 30th, 31st; Summerville 19th, 28th, 29th.



## OBSERVERS' REMARKS.

BATESBURG.—Ice one-half inch in thickness formed on the morning of the 21st. BEAUFORT.—The mean temperature was 1.5° below normal; the precipitation was 0.28 inch in excess of the normal amount. Plum trees were in full bloom on the 1st; peaches, pears and jessamine on the 4th, and blackberries on the 25th. The first chuck-will was heard on the 15th. BOWMAN.—The month was remarkable for the number of partly cloudy and cloudy days. Poplar trees began to bud on the 6th, gum trees on the 18th, and hickory trees on the 31st. DILLON.—The first martin was seen on the 10th, and the first poplar buds on the 20th. Apple blossoms were first noted on the 25th. LIBERTY.—The frequent rains kept the soil very wet throughout the entire month, delaying farm work. SANTUC.—The month was wet and cold, which retarded the budding and leafing of trees. SOCIETY HILL.—The mean temperature was 4.9° below normal. The cold weather was adverse to planting and growth of vegetation. STATEBURG.—The advent of Spring was delayed by the prevailing cool weather, due to a succession of cool waves with almost weekly regularity, with killing frosts as late as the 26th on low lying lands. SUMMERVILLE.—Early vegetation was seriously damaged by the frost and freezing temperature on the 21st. TRENTON.—The precipitation was 2.28 inches more than the March normal amount, and since January 1st it is 1.43 inches less than the average for the first three months. ROCK HILL.—The soil was in good condition for cultivation throughout the month.

## MARCH WEATHER.

The beginning of March marks the advent of spring in South Carolina. There is a steady and practically uniform increase in warmth, during this month, from the first to the last day. The daily average temperature is about 8° higher on the last day than it was on the first, the increase being at a uniform rate of about 1° for every four days. It is also the month for fruit trees of all varieties, save exceptionally early or very late ones, to reach a full blossoming stage, in all portions of the State, and for budding forest trees to show their first tinge of verdure. Fields are prepared for all kinds of crops, and gardens are planted, while vegetation begins its growing season. During this month the last of the winter resident, and other migratory birds leave for more northern regions, and it is the active mating season for those birds that summer here.

As in all transition periods, the weather maintains no uniform phase, but differs widely from year to year. The last thirteen years shows a difference in the monthly average temperature between 60.4° in 1903, and 51.6° in 1900 and 1906. The lowest average that has been noted is higher than the highest February average, while the highest average for March is somewhat in excess of the April normal temperature. There is less difference between the monthly average maximum temperatures for different years than there is between the monthly average minimum temperatures, or, expressed in other words, there has been a wider range in the night than in the day temperatures. The highest maximum in the last 13 years was 93°, at Gillisonville in 1896 and at Waterboro in 1905; the lowest minimum during the same period was 10°, at Liberty in 1901. In six of the thirteen years for which

data are available, the maximum temperature rose to, or above, 90° in some portions of the State; with the 23rd as the average date of occurrence of the maximum, while on two years only did the maximum occur earlier than the 15th. Likewise in six of the thirteen years a minimum of 20°, or lower, was recorded in some portion of the State, usually in one or more of the western or northwestern counties, and in five of these years the date of occurrence was after the 15th, although the 10th is the average date of occurrence of the lowest temperature.

The precipitation is usually copious during March, but is rarely excessive. The smallest State average was 2.08 inches in 1894, and the largest was 5.92 inches in 1903. The geographical distribution is fairly well shown by the fact that stations in the western half of the State have the larger average amounts, while, tentatively, the tendency appears to be toward a greater constancy, or less variation from year to year, at stations in the eastern half, although it will require a much longer record to positively establish this preliminary deduction. There also appears to be a certain persistence in heavy rains in certain localities as indicated by the station at Trenton having had the heaviest monthly amount in three out of the last thirteen years, during which time reports were received from an average of about 50 rainfall stations; the station at Greenville had the heaviest rainfall in two years, at the station at Walhalla in two years. These may be, and probably are, purely accidental coincidences.

Snow has been recorded in five years, but the average amounts have been traces only. The prevailing direction of the wind was from the southwest in eight years, from the northeast in four years, and from the west in one year. The average number of clear days has been 12, of partly cloudy days 9, and of cloudy days 10.

## Temperature, Rainy Days and Wind.

| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|
| 1894 .. | 59.3       | 70.0      | 48.6      | 90            | 15           | 7           | sw.               |
| 1895 .. | 53.5       | 63.1      | 43.7      | 90            | 24           | 11          | sw.               |
| 1896 .. | 53.1       | 64.5      | 51.5      | 93            | 19           | 5           | sw.               |
| 1897 .. | 56.4       | 65.5      | 47.3      | 92            | 21           | 12          | sw.               |
| 1898 .. | 59.1       | 68.8      | 49.4      | 92            | 22           | 7           | ne.               |
| 1899 .. | 55.2       | 66.3      | 44.0      | 89            | 12           | 9           | sw.               |
| 1900 .. | 51.6       | 62.6      | 40.6      | 79            | 22           | 9           | sw.               |
| 1901 .. | 53.4       | 64.9      | 41.9      | 86            | 10           | 8           | sw.               |
| 1902 .. | 54.0       | 65.1      | 43.0      | 86            | 19           | 10          | sw.               |
| 1903 .. | 60.4       | 69.4      | 51.4      | 84            | 26           | 10          | ne.               |
| 1904 .. | 56.2       | 69.7      | 44.4      | 87            | 23           | 9           | ne.               |
| 1905 .. | 57.8       | 69.2      | 46.5      | 93            | 28           | 6           | ne.               |
| 1906 .. | 51.6       | 62.4      | 40.8      | 82            | 18           | 10          | w.                |

## Precipitation.

| Year.    | State Average. | Greatest Monthly. | Place.               | Least Monthly. | Place.              |
|----------|----------------|-------------------|----------------------|----------------|---------------------|
| 1894.... | 2.08           | 3.49              | Pinopolis.           | 0.71           | Little Mountain.    |
| 1895.... | 5.71           | 7.64              | Trenton.             | 3.66           | Kingstree.          |
| 1896.... | 2.12           | 4.19              | Allendale.           | T.             | Shaw's Fork.        |
| 1897.... | 4.54           | 7.81              | Gillisonville.       | 2.15           | Conway.             |
| 1898.... | 2.99           | 5.38              | Trenton.             | 1.36           | Allendale.          |
| 1899.... | 3.80           | 9.10              | Central.             | 1.51           | Beaufort.           |
| 1900.... | 4.22           | 7.58              | Greenville.          | 0.98           | Pinopolis.          |
| 1901.... | 4.36           | 8.64              | Greenville. Liberty. | 2.27           | Pinopolis. Yemassee |
| 1902.... | 4.08           | 7.10              | Trenton.             | 1.90           | Darlington.         |
| 1903.... | 5.92           | 11.14             | Batesburg.           | 1.53           | Bowman.             |
| 1904.... | 3.42           | 5.52              | Walhalla.            | 1.54           | Charleston.         |
| 1905.... | 2.15           | 3.96              | Cheraw.              | 0.89           | Anderson.           |
| 1906.... | 5.34           | 10.25             | Walhalla.            | 3.26           | St. Matthews.       |

## ERRATA.

The following corrections should be made on the February number of the Monthly Report. On page 14, the maximum temperature at Newberry on the 7th, 32°, should be 35°, and the mean maximum 56.1° should be 56.2°.



# CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

## CLIMATOLOGICAL DATA FOR THE MONTH OF MARCH, 1906.

| STATIONS.                             | Counties.     | Elevation - feet. | Length of record - years. | Temperature - in degrees Fahrenheit. |                            |          |       |         |       | Precipitation - in inches. |        |                            |                       | Sky.                        |                    |                    |                            | Observers. |                     |                               |
|---------------------------------------|---------------|-------------------|---------------------------|--------------------------------------|----------------------------|----------|-------|---------|-------|----------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|------------|---------------------|-------------------------------|
|                                       |               |                   |                           | Mean.                                | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.      | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, (unmelted.) | Number rainy days. | Number clear days. | Number partly cloudy days. |            | Number cloudy days. | Prevailing direction of wind. |
| Aiken.                                | Aiken.        | 565               | 22                        | 53.4                                 | 1.2                        | 80       | *14   | 24      | 21    | 34                         | 4.40   | -0.20                      | 1.70                  | 0                           | 5                  | 27                 | 2                          | 2          | sw.                 | C. F. McGahan, M. D.          |
| Alhendale.                            | Barnwell.     | 186               | 18                        | 56.8                                 | 1.0                        | 70       | 14    | 29      | 21    | 41                         | 3.65   | +0.34                      | 1.13                  | 0                           | 5                  | 18                 | 0                          | 13         | ....                | C. A. Glover.                 |
| Anderson.                             | Anderson.     | 704               | 5                         | 48.6                                 | -2.3                       | 75       | 12    | 24      | 21    | 32                         | 7.81   | +2.73                      | 2.14                  | 0                           | 11                 | 14                 | 2                          | 15         | e.                  | H. H. Russell.                |
| Augusta, Ga.                          | Richmond.     | 141               | 35                        | 53.2                                 | -2.3                       | 80       | 14    | 29      | 21    | 32                         | 4.33   | -0.86                      | 1.53                  | 0                           | 11                 | 10                 | 12                         | 9          | w.                  | Weather Bureau.               |
| Barksdale.                            | Laurens.      | 680               | 5                         | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | ...                   | ...                         | ...                | ...                | ...                        | ...        | ...                 | J. T. Garrett.                |
| Batesburg.                            | Lexington.    | 656               | 18                        | 50.1                                 | -4.8                       | 78       | 12    | 22      | 1     | 41                         | 6.78   | +2.78                      | 1.51                  | 0                           | 9                  | 12                 | 2                          | 17         | e.                  | E. J. Hite.                   |
| Beaufort.                             | Beaufort.     | 20                | 20                        | 57.0                                 | 1.5                        | 78       | 28    | 33      | 21    | 28                         | 3.37   | +0.28                      | 1.41                  | 0                           | 9                  | 15                 | 9                          | 7          | s.                  | S. M. Benton.                 |
| Bennettsville.                        | Marlboro.     | 151               | 5                         | 51.2                                 | ...                        | 79       | 12    | 26      | 21    | 35                         | 4.21   | +0.73                      | 0.83                  | 0                           | 14                 | 10                 | 9                          | 11         | w.                  | C. S. McCall.                 |
| Blackville.                           | Barnwell.     | 296               | 18                        | 54.4                                 | -2.2                       | 82       | 14    | 28      | *1    | 41                         | 4.08   | +0.51                      | 1.60                  | 0                           | 10                 | 15                 | 7                          | 9          | se.                 | G. D. C. Lange.               |
| Blairs.                               | Fairfield.    | 293               | 1                         | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | ...                   | ...                         | ...                | ...                | ...                        | ...        | ...                 | T. S. McMeekin.               |
| Bowman.                               | Orangeburg.   | 160               | 5                         | 54.8                                 | ...                        | 79       | *12   | 28      | 21    | 35                         | 3.77   | ...                        | 2.15                  | 0                           | 8                  | 11                 | 10                         | 10         | w.                  | B. O. Evans.                  |
| Calhoun Falls.                        | Abbeville.    | 508               | 13                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 2.22                  | 0                           | 12                 | 17                 | 1                          | 13         | ne.                 | P. J. Pfeiffer.               |
| Camden.                               | Kershaw.      | 222               | 40                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 2.40                  | 0                           | 10                 | 11                 | 6                          | 13         | e.                  | W. C. Brown.                  |
| Chappells.                            | Newberry.     | 402               | 1                         | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.88                  | 0                           | 10                 | 13                 | 0                          | 18         | e.                  | W. F. Glenn.                  |
| Charleston.                           | Charleston.   | 48                | 37                        | 55.6                                 | -1.1                       | 77       | 15    | 33      | 21    | 23                         | 2.32   | -1.62                      | 1.24                  | 0                           | 8                  | 12                 | 11                         | 8          | s.                  | Weather Bureau.               |
| Charlotte, N. C.                      | Mocklenburg.  | 808               | 28                        | 46.8                                 | -3.1                       | 74       | 12    | 25      | 21    | 28                         | 5.17   | +0.43                      | 1.48                  | 0                           | 12                 | 9                  | 7                          | 15         | ne.                 | Weather Bureau.               |
| Cheraw (1).                           | Chesterfield. | 144               | 18                        | 49.0                                 | -4.0                       | 78       | 11    | 24      | 21    | 40                         | 5.04   | +1.31                      | 1.07                  | 0                           | 11                 | 9                  | 6                          | 16         | n.                  | W. R. Godfrey.                |
| Cheraw (2).                           | Edgefield.    | 144               | 13                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.48                  | 0                           | 13                 | 13                 | 3                          | 15         | ne.                 | Jno. H. Powe.                 |
| Clarks Hill.                          | Oconee.       | 500               | 4                         | 51.2                                 | ...                        | 78       | 20    | 23      | 21    | 33                         | 3.78   | ...                        | 1.48                  | 0                           | 5                  | 8                  | 7                          | 16         | ...                 | Wm. S. Middleton.             |
| Clemson College.                      | Richland.     | 850               | 15                        | 50.6                                 | -2.1                       | 75       | 28    | 23      | 1     | 35                         | 8.02   | +3.55                      | 2.48                  | 0                           | 10                 | 16                 | 2                          | 13         | w.                  | Jno. N. Hook.                 |
| Columbia.                             | Horry.        | 351               | 19                        | 51.8                                 | -2.4                       | 77       | 12    | 27      | 21    | 28                         | 5.01   | +0.48                      | 1.66                  | 0                           | 12                 | 11                 | 7                          | 13         | ne.                 | Central Office.               |
| Conway.                               | Darlington.   | 25                | 14                        | 53.4                                 | ...                        | 81       | 12    | 28      | 21    | 36                         | 4.31   | +0.74                      | 1.40                  | 0                           | 12                 | 14                 | 0                          | 17         | sw.                 | Miss M. G. Quattlebann.       |
| Darlington.                           | Marion.       | 175               | 11                        | 51.0                                 | ...                        | 79       | 12    | 24      | 21    | 36                         | 5.32   | +2.12                      | 1.36                  | 0                           | 10                 | 14                 | 8                          | 9          | ...                 | Miss F. G. McIver.            |
| Dillon.                               | Abbeville.    | 100               | 2                         | 52.0                                 | ...                        | 80       | 12    | 24      | 21    | 37                         | 4.98   | ...                        | 1.27                  | 0                           | 13                 | ...                | ...                        | ...        | ...                 | A. E. Rowell.                 |
| Due West.                             | Bamberg.      | 730               | 5                         | 50.0                                 | ...                        | 79       | 28    | 24      | 21    | 34                         | 7.21   | ...                        | 2.11                  | 0                           | 10                 | 15                 | 6                          | 10         | s.                  | Rev. O. Y. Bonner.            |
| Edisto.                               | Florence.     | 127               | 13                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.39                  | 0                           | 10                 | 15                 | 0                          | 15         | sw.                 | Mrs. M. Thompson.             |
| Ellingham.                            | Spartanburg.  | 987               | 1                         | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 4.33                  | 0                           | 8                  | 14                 | 0                          | 17         | n.                  | H. B. McCall.                 |
| Enoree.                               | Florence.     | 106               | 14                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.90                  | 0                           | 8                  | 16                 | 0                          | 15         | sw.                 | J. W. King.                   |
| Florence.                             | Charokoe.     | 136               | 18                        | 51.8                                 | -3.3                       | 80       | 12    | 27      | 21    | 43                         | 5.13   | +2.23                      | 1.23                  | 0                           | 8                  | 12                 | 0                          | 19         | ne.                 | H. K. Gilbert.                |
| Gaffney.                              | Georgetown.   | 893               | 10                        | 46.2                                 | ...                        | 76       | 12    | 22      | *1    | 43                         | 7.29   | +1.93                      | 1.64                  | 0                           | 13                 | 11                 | 5                          | 15         | ne.                 | B. F. Camp.                   |
| Georgetown.                           | Greenville.   | 12                | 13                        | 53.6                                 | -3.7                       | 74       | 12    | 31      | 21    | 24                         | 3.51   | +0.44                      | 1.22                  | 0                           | 10                 | 15                 | 8                          | 8          | ne.                 | Reid Whitford.                |
| Greenville.                           | Greenville.   | 989               | 14                        | 44.4                                 | -5.3                       | 73       | 12    | 18      | 21    | 46                         | 7.68   | +2.46                      | 2.24                  | 0                           | 13                 | 12                 | 1                          | 18         | sw.                 | Mrs. S. A. Crittenden.        |
| Greenwood.                            | Lancaster.    | 671               | 18                        | 47.8                                 | -6.9                       | 73       | 12    | 23      | 1     | 37                         | 5.89   | +1.58                      | 1.76                  | 0                           | 10                 | 13                 | 0                          | 18         | w.                  | M. M. Calhoun.                |
| Heath Springs.                        | Williamsburg. | 568               | 5                         | 49.6                                 | ...                        | 78       | 28    | 23      | 21    | 34                         | 5.19   | ...                        | 1.18                  | 0                           | 13                 | 12                 | 7                          | 12         | ne.                 | J. A. Weaver.                 |
| Kingstree (1).                        | Pickens.      | 51                | 12                        | 57.3                                 | +0.9                       | 79       | 12    | 36      | 21    | 26                         | 4.85   | +1.98                      | 1.15                  | 0                           | 9                  | 16                 | 7                          | 8          | ne.                 | J. A. Scott.                  |
| Kingstree (2).                        | Newberry.     | 51                | 12                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.46                  | 0                           | 8                  | 14                 | 3                          | 14         | ne.                 | A. O. Matthews.               |
| Liberty.                              | Berkeley.     | 900               | 12                        | 46.8                                 | -4.6                       | 75       | 11    | 22      | 21    | 35                         | 8.29   | +3.23                      | 2.42                  | 0                           | 9                  | 13                 | 8                          | 10         | e.                  | Jno. T. Boggs.                |
| Little Mountain.                      | Kershaw.      | 630               | 13                        | 50.7                                 | +4.6                       | 77       | 12    | 26      | 21    | 32                         | 6.52   | +2.96                      | 1.85                  | 0                           | 11                 | 7                  | 11                         | 13         | sw.                 | John M. Sease, M. D.          |
| Luzoff.                               | Newberry.     | 168               | 5                         | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.50                  | 0                           | 11                 | 6                  | 10                         | 15         | sw.                 | W. J. Burdell, M. D.          |
| Newberry.                             | Anderson.     | 502               | 2                         | 50.6                                 | -2.8                       | 77       | 12    | 25      | 21    | 36                         | 5.35   | +1.17                      | 1.50                  | 0                           | 11                 | 6                  | 10                         | 15         | sw.                 | W. G. Peterson.               |
| Pelzer.                               | Berkeley.     | 873               | 1                         | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 2.00                  | 0                           | 12                 | 13                 | 1                          | 17         | w.                  | John M. Ward.                 |
| Pinopolis.                            | Dorchester.   | 54                | 13                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | ...                   | ...                         | ...                | ...                | ...                        | ...        | ...                 | E. P. Ravenel.                |
| St. Georges.                          | Orangeburg.   | 109               | 18                        | 52.2                                 | -2.9                       | 77       | *12   | 27      | 1     | 37                         | 3.26   | +0.07                      | 1.25                  | 0                           | 9                  | 21                 | 0                          | 10         | ...                 | W. B. Raysor.                 |
| St. Matthew.                          | Berkeley.     | 269               | 18                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.56                  | 0                           | 11                 | 13                 | 2                          | 16         | s.                  | J. S. Wannamaker.             |
| St. Stephen.                          | Saluda.       | 73                | 14                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.67                  | 0                           | 10                 | 14                 | 2                          | 15         | w.                  | C. T. Shuler.                 |
| Saluda.                               | Union.        | 536               | 5                         | 51.2                                 | ...                        | 77       | 12    | 25      | 21    | 36                         | 5.72   | ...                        | 1.67                  | 0                           | 10                 | 14                 | 2                          | 15         | w.                  | Alvin Etheridge.              |
| Santee.                               | Chatham.      | 512               | 13                        | 48.0                                 | -4.6                       | 76       | 12    | 22      | 21    | 34                         | 5.90   | +1.45                      | 1.89                  | 0                           | 11                 | 11                 | 8                          | 12         | w.                  | E. W. Jeter.                  |
| Savannah, Ga.                         | Aiken.        | 71                | 37                        | 57.2                                 | -1.3                       | 79       | 28    | 32      | 21    | 28                         | 1.46   | -2.32                      | 0.55                  | 0                           | 7                  | 10                 | 12                         | 9          | sw.                 | Weather Bureau.               |
| Seivern.                              | Williamsburg. | 482               | 5                         | 51.0                                 | -4.6                       | 80       | 29    | 19      | *1    | 44                         | 5.47   | +2.28                      | 1.29                  | 0                           | 11                 | 14                 | 6                          | 11         | sw.                 | Geo. C. Gunter.               |
| Smiths Mills.                         | Darlington.   | 62                | 11                        | ...                                  | ...                        | ...      | ...   | ...     | ...   | ...                        | ...    | ...                        | 1.30                  | 0                           | 6                  | 18                 | 0                          | 13         | w.                  | H. van Kenren.                |
| Society Hill.                         | Spartanburg.  | 192               | 15                        | 50.2                                 | -4.9                       | 74       | 12    | 27      | 20    | 30                         | 5.23   | +1.88                      | 1.03                  | 0                           | 10                 | 14                 | 7                          | 10         | ne.                 | J. Lucas.                     |
| Spartanburg.                          | Sumter.       | 875               | 15                        | 46.6                                 | -3.6                       | 77       | 12    | 19      | 1     | 42                         | 6.32   | +2.11                      | 1.30                  | 0                           | 12                 | 14                 | 2                          | 15         | ...                 | F. P. Robinson.               |
| Stateburg.                            | Dorchester.   | 75                | 9                         | 56.4                                 | -0.1                       | 82       | 12    | 27      | 21    | 38                         | 3.73   | +1.04                      | 1.30                  | 0                           | 9                  | 13                 | 6                          | 11         | e.                  | W. W. Anderson, M. D.         |
| Summerville.                          | Sumter.       | 500               | 29                        | 53.7                                 | -0.4                       | 79       | 12    | 27      | 21    | 32                         | 5.29   | +1.55                      | 1.29                  | 0                           | 10                 | 12                 | 12                         | 7          | sw.                 | Miss E. H. Gadsden.           |
| Sumter.                               | Edgefield.    | 169               | 5                         | 54.3                                 | ...                        | 81       | *12   | 25      | 21    | 37                         | 5.27   | ...                        | 2.03                  | 0                           | 10                 | 11                 | 9                          | 11         | ...                 | H. A. Moses.                  |
| Trenton.                              | Berkeley.     | 620               | 13                        | 51.4                                 | -5.8                       | 76       | 29    | 25      | 21    | 35                         | 5.52   | +2.28                      | 1.53                  | 0                           | 9                  | 13                 | 9                          | 9          | w.                  | C. A. Long.                   |
| Trial.                                | Oconee.       | 1061              | 15                        | 48.0                                 | -2.0                       | 74       | *11   | 19      | 21    | 39                         | 10.25  | +3.47                      | 2.50                  | 0                           | 11                 | 13                 | 7                          | 9          | w.                  | Etsell Gaillard.              |
| Walhalla.                             | Colleton.     | 69                | 3                         | 56.2                                 | ...                        | 82       | 12    | 27      | *1    | 48                         | 3.91   | ...                        | 1.21                  | 0                           | 9                  | 14                 | 11                         | 6          | se.                 | Miss Laura Isbell.            |
| Walterboro.                           | New Hanover.  | 52                | 37                        | 51.8                                 | -2.1                       | 80       | 12    | 30      | 21    | 30                         | 4.48   | +0.53                      | 1.16                  | 0                           | 13                 | 10                 | 10                         | 11         | ne.                 | J. A. Westenberg.             |
| Wilmington, N. C.                     | Fairfield.    | 545               | 17                        | 49.4                                 | -2.7                       | 77       | 12    | 23      | 21    | 33                         | 4.99   | +1.38                      | 1.33                  | 0                           | 7                  | 16                 | 6                          | 9          | e.                  | Weather Bureau.               |
| Winnboro.                             | York.         | 690               | 7                         | 48.6                                 | -4.0                       | 75       | 12    | 22      | 21    | 31                         | 6.15   | +1.89                      | 1.90                  | 0                           | 12                 | 12                 | 10                         | 9          | sw.                 | John W. Seigler.              |
| Winthrop College.                     | Beaufort.     | 23                | 11                        | 53.8                                 | -4.8                       | 80       | 28    | 27      | 21    | 39                         | 4.17   | +1.12                      | 0.93                  | 0                           | 9                  | 16                 | 4                          | 11         | ...                 | E. R. Rivers.                 |
| Yemassee.                             | York.         | 680               | 18                        | 49.0                                 | -4.1                       | 79       | 12    | 24      | 21    | 35                         | 5.97   | +1.07                      | 1.80                  | 0                           | 12                 | 7                  | 7                          | 17         | sw.                 | J. G. Hntson.                 |
| Yorkville.                            | York.         | 680               | 18                        | 49.0                                 | -4.1                       | 79       | 12    | 24      | 21    | 35                         | 5.97   | +1.07                      | 1.80                  | 0                           | 12                 | 7                  | 7                          | 17         | sw.                 | J. R. Schorb.                 |
| MEANS—highest, lowest and dates, etc. |               |                   |                           | 51.6                                 | -2.9                       | 82       | *12   | 18      | 21    | 48                         | 5.34   | +1.41                      | 2.50                  | T.                          | 10                 | 13                 | 6                          | 12         | w.                  |                               |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. § Exposed not standard. \* On other dates also. † Minimum thermometer not standard.



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

MARCH, 1906.

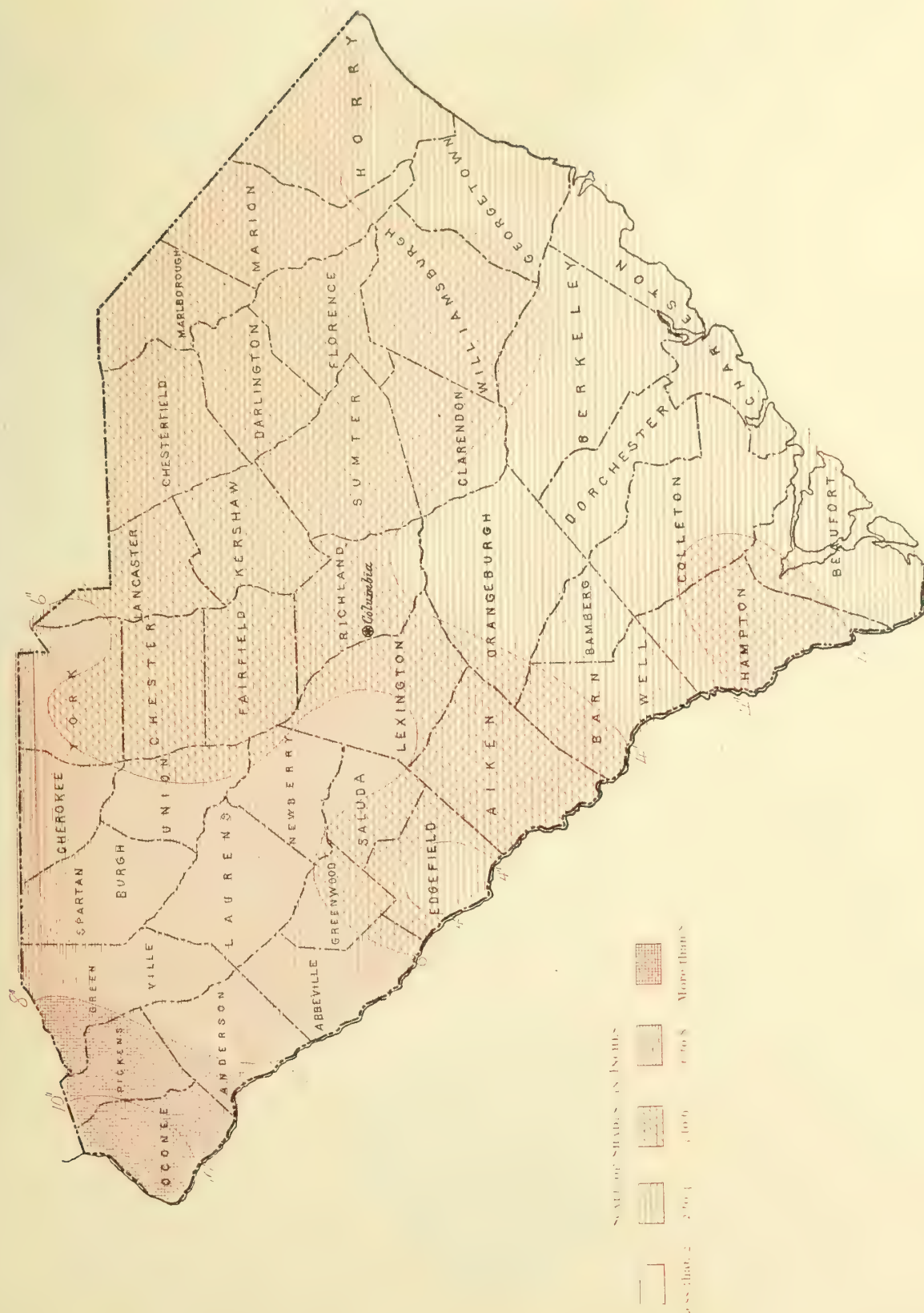
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MARCH, 1906.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.  
† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR MARCH, 1906.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, MARCH, 1906.

| STATIONS.         | Day of Month. |      |      |     |   |   |      |      |     |    |    |    |    |     |      |      |     |     |      |      |     |    |    |    |    |    |     |     |     |     |     | Total. |       |      |
|-------------------|---------------|------|------|-----|---|---|------|------|-----|----|----|----|----|-----|------|------|-----|-----|------|------|-----|----|----|----|----|----|-----|-----|-----|-----|-----|--------|-------|------|
|                   | 1             | 2    | 3    | 4   | 5 | 6 | 7    | 8    | 9   | 10 | 11 | 12 | 13 | 14  | 15   | 16   | 17  | 18  | 19   | 20   | 21  | 22 | 23 | 24 | 25 | 26 | 27  | 28  | 29  | 30  | 31  |        |       |      |
| Aiken             |               |      | .60  |     |   |   | 1.70 |      |     |    |    |    |    |     |      |      |     |     | 1.00 |      |     |    |    |    |    |    |     |     |     |     |     | 4.40   |       |      |
| Allendale         |               |      | .65  |     |   |   | 1.03 |      |     |    |    |    |    |     | .19  |      |     |     | .96  |      |     |    |    |    |    |    |     |     |     |     |     | 3.65   |       |      |
| Anderson          |               |      | .23  |     |   |   | .25  | 1.07 |     |    |    |    |    |     | .50  | 1.71 |     |     | 2.14 |      |     |    |    |    |    |    |     |     |     |     |     | 7.81   |       |      |
| Augusta, Ga.      |               |      | .30  |     |   |   | .29  | 1.24 |     |    |    |    |    |     | .10  | .28  |     |     | .06  | .95  |     |    |    |    |    |    | .02 | .49 | .17 | .80 | .43 | 4.33   |       |      |
| Barksdale         |               |      | .30  |     |   |   | 1.60 |      |     |    |    |    |    |     |      |      |     |     |      |      |     |    |    |    |    |    |     | .66 | .42 | .01 | .02 | T.     | 4.33  |      |
| Batesburg         |               | .17  | .25  |     |   |   | 1.09 | 1.16 |     |    |    |    |    |     | .65  |      |     |     | .13  | 1.50 |     |    |    |    |    |    |     |     |     |     |     | 6.78   |       |      |
| Beaufort          |               | .38  |      |     |   |   | 1.03 |      |     |    |    |    |    |     | .10  |      |     |     | 1.11 | .04  |     |    |    |    |    |    |     |     |     |     |     | 6.78   |       |      |
| Bennettsville     |               | .03  | .26  |     |   |   | .11  | .86  | .10 |    |    |    |    | .02 | .21  |      |     |     | .75  |      |     |    |    |    |    |    |     |     |     |     |     | 6.78   |       |      |
| Blackville        |               | .24  | .06  |     |   |   | .52  | .86  |     |    |    |    |    |     | .35  |      |     |     | .02  | 1.60 |     |    |    |    |    |    | .16 | .11 | .24 | .71 | .25 | .43    | 4.21  |      |
| Blairs            |               |      | .34  |     |   |   | .88  | .50  |     |    |    |    |    |     | 1.18 |      |     |     | .30  |      |     |    |    |    |    |    |     |     |     |     |     | 4.08   |       |      |
| Bowman            |               |      |      |     |   |   | 2.15 |      |     |    |    |    |    |     |      |      |     |     | T.   | 1.02 |     |    |    |    |    |    |     |     |     |     |     | 4.52   |       |      |
| Calhoun Falls     |               | .14  | .39  |     |   |   | .66  | .79  |     |    |    |    |    |     | 1.69 |      |     |     | .92  | 2.22 |     |    |    |    |    |    |     |     |     |     |     | 3.77   |       |      |
| Camden            |               | .18  |      |     |   |   | .72  | .58  |     |    |    |    |    |     | .52  | .06  |     |     | T.   | 1.25 |     |    |    |    |    |    |     | .18 | .21 | .56 | .49 | .68    | 8.93  |      |
| Chappells         |               | T.   | 1.24 |     |   |   | 1.04 | .70  |     |    |    |    |    |     | .96  |      |     |     | .36  | 1.34 |     |    |    |    |    |    |     |     |     |     |     | 5.87   |       |      |
| Charleston        |               | .09  |      |     |   |   | .52  | .78  |     |    |    |    |    |     | .07  |      |     |     | T.   | .46  |     |    |    |    |    |    |     |     |     |     |     | 6.82   |       |      |
| Charlotte, N. C   |               | T.   | .25  |     |   |   | .29  | .42  |     |    |    |    |    |     | .39  | .89  |     |     | T.   | 1.48 |     |    |    |    |    |    |     |     |     |     |     | T.     | 2.32  |      |
| Cheraw(1)         |               | .01  | .19  |     |   |   | .58  | .52  |     |    |    |    |    |     | T.   | .29  |     |     | .12  | .72  |     |    |    |    |    |    |     |     |     |     |     | T.     | 5.17  |      |
| Cheraw(2)         |               | .04  | .21  |     |   |   | .54  | .52  |     |    |    |    |    |     | T.   | .20  | .10 |     | .10  | .78  |     |    |    |    |    |    |     |     |     |     |     | T.     | 5.17  |      |
| Clark's Hill      |               | .19  |      |     |   |   | 1.48 |      |     |    |    |    |    |     | T.   | .20  |     |     | T.   | 1.29 |     |    |    |    |    |    |     |     |     |     |     |        | 5.04  |      |
| Clemson College   |               |      |      |     |   |   | 1.34 | .09  |     |    |    |    |    |     | .19  | 2.24 |     |     | T.   | 2.48 |     |    |    |    |    |    |     |     |     |     |     |        | 5.29  |      |
| Columbia          |               | .42  |      |     |   |   | .15  | 1.53 |     |    |    |    |    |     | T.   | .47  |     |     | .04  | 1.12 |     |    |    |    |    |    |     |     |     |     |     |        | 3.78  |      |
| Conway            |               | .25  | .05  |     |   |   | 1.40 | .87  |     |    |    |    |    |     | .15  | .07  |     |     | .10  | .65  |     |    |    |    |    |    |     |     |     |     |     |        | 8.02  |      |
| Darlington        |               | .24  |      |     |   |   | 1.19 |      |     |    |    |    |    |     | T.   | .20  |     |     | 1.36 | .02  |     |    |    |    |    |    |     |     |     |     |     |        | 5.01  |      |
| Dillon            |               | .10  | .03  |     |   |   | .12  | 1.27 | .01 |    |    |    |    |     | T.   | .19  |     |     | 1.07 | .02  |     |    |    |    |    |    |     |     |     |     |     |        | 4.31  |      |
| Due West          |               | .31  |      |     |   |   | .22  | 1.29 |     |    |    |    |    |     | .30  | 1.76 |     |     | 2.11 | .40  |     |    |    |    |    |    |     |     |     |     |     |        | 5.32  |      |
| Edisto            |               | .08  | .33  |     |   |   | .51  | .83  |     |    |    |    |    |     | .15  |      |     |     | .08  | 1.39 |     |    |    |    |    |    |     |     |     |     |     |        | 4.98  |      |
| Effingham         |               |      | T.   |     |   |   | .50  | 1.50 |     |    |    |    |    |     | .25  | .40  |     |     | .10  | .20  |     |    |    |    |    |    |     |     |     |     |     |        | 7.21  |      |
| Enoree            |               | .15  |      |     |   |   | 1.80 |      |     |    |    |    |    |     | 1.90 | .90  |     |     | .30  | 1.23 |     |    |    |    |    |    |     |     |     |     |     |        | 3.89  |      |
| Florence          |               |      | .28  | .14 |   |   | .65  | .25  |     |    |    |    |    |     | .17  |      |     |     | .80  | .90  |     |    |    |    |    |    |     |     |     |     |     |        | 7.25  |      |
| Gaffney           |               |      |      |     |   |   | 1.10 | .75  |     |    |    |    |    |     | .15  |      |     |     | .30  | 1.23 |     |    |    |    |    |    |     |     |     |     |     |        | 5.13  |      |
| Georgetown        |               | .15  |      |     |   |   | .20  | 1.22 | .25 |    |    |    |    |     | 1.64 |      |     | .03 | 1.20 | .90  |     |    |    |    |    |    |     |     |     |     |     |        | 7.29  |      |
| Greenville        |               | .38  | .16  |     |   |   | 1.00 |      |     |    |    |    |    |     | .15  |      |     |     | .80  | .90  |     |    |    |    |    |    |     |     |     |     |     |        | 5.13  |      |
| Greenwood         |               |      |      |     |   |   | 1.28 | .27  |     |    |    |    |    |     | .02  | 2.24 | .01 |     | 1.44 | .98  |     |    |    |    |    |    |     |     |     |     |     |        | 7.68  |      |
| Heath Springs     |               | .33  |      |     |   |   | 1.28 | .27  |     |    |    |    |    |     | 1.76 |      |     |     | .27  | 1.35 |     |    |    |    |    |    |     |     |     |     |     |        | 5.89  |      |
| Kingstree(1)      |               |      |      |     |   |   | .15  | .95  | .02 |    |    |    |    |     | .01  | .96  |     |     | 1.18 |      |     |    |    |    |    |    |     |     |     |     |     |        | 5.19  |      |
| Kingstree(2)      |               |      |      |     |   |   | 1.15 | .70  |     |    |    |    |    |     | .30  | .05  |     |     | .80  | .75  |     |    |    |    |    |    |     |     |     |     |     |        | 4.85  |      |
| Liberty           |               | T.   | .60  |     |   |   | 1.10 | .70  |     |    |    |    |    |     | .25  | T.   |     |     | .08  | .80  |     |    |    |    |    |    |     |     |     |     |     |        | 4.30  |      |
| Little Mountain   |               | .44  |      |     |   |   | 1.15 | .15  |     |    |    |    |    |     | .76  | 1.69 |     |     | 2.42 |      |     |    |    |    |    |    |     |     |     |     |     |        | 8.29  |      |
| Lugoff            |               |      |      |     |   |   | 1.15 | .85  |     |    |    |    |    |     | .02  | .80  |     |     | 1.25 |      |     |    |    |    |    |    |     |     |     |     |     |        | 6.52  |      |
| Newberry          |               | .20  |      |     |   |   | 1.00 | .60  | .01 |    |    |    |    |     | T.   | .96  |     |     | 1.50 |      |     |    |    |    |    |    |     |     |     |     |     |        | 5.35  |      |
| Pelzer            |               | .14  | T.   |     |   |   | 1.28 | .18  |     |    |    |    |    |     | 1.2  | 2.00 |     |     | 1.24 | 1.08 |     |    |    |    |    |    |     |     |     |     |     |        | 7.58  |      |
| Pinopolis         |               |      |      |     |   |   |      |      |     |    |    |    |    |     |      |      |     |     |      |      |     |    |    |    |    |    |     |     |     |     |     |        |       |      |
| St. Georges       |               |      |      |     |   |   |      |      |     |    |    |    |    |     |      |      |     |     |      |      |     |    |    |    |    |    |     |     |     |     |     |        |       |      |
| St. Matthew       |               | .10  |      |     |   |   | .55  | .02  |     |    |    |    |    |     | .22  |      |     |     | .10  | 1.25 |     |    |    |    |    |    |     |     |     |     |     |        | 3.26  |      |
| St. Stephen       |               |      | .15  |     |   |   | .81  | .95  |     |    |    |    |    |     | .12  | .07  |     |     | .18  | .85  |     |    |    |    |    |    |     |     |     |     |     |        | 4.64  |      |
| Saluda            |               | .39  |      |     |   |   | .05  | 1.67 |     |    |    |    |    |     | .16  |      |     |     | 1.40 | T.   |     |    |    |    |    |    |     |     |     |     |     |        | 5.72  |      |
| Santee            |               | .06  |      |     |   |   | .09  | 1.04 | T.  |    |    |    |    |     | .08  | 1.10 |     |     | 1.89 |      |     |    |    |    |    |    |     |     |     |     |     |        | 5.90  |      |
| Savannah, Ga.     |               | .29  |      |     |   |   | .01  | .54  |     |    |    |    |    |     | .01  |      |     |     | .48  |      |     |    |    |    |    |    |     |     |     |     |     |        | .09   | 1.46 |
| Seivern           |               | .30  |      |     |   |   | 1.25 | .88  |     |    |    |    |    |     | T.   | .38  |     |     | .12  | 1.05 |     |    |    |    |    |    |     |     |     |     |     |        | 5.47  |      |
| Smiths Mills      |               |      |      |     |   |   | 1.30 | .90  |     |    |    |    |    |     |      | .08  |     |     | .10  |      |     |    |    |    |    |    |     |     |     |     |     |        | 3.98  |      |
| Society Hill      |               | .47  |      |     |   |   | .67  | .48  |     |    |    |    |    |     | .16  | .10  |     |     | .14  | .87  |     |    |    |    |    |    |     |     |     |     |     |        | 5.23  |      |
| Spartanburg       |               | .23  | .07  |     |   |   | .70  | .23  |     |    |    |    |    |     | .94  |      |     |     | 1.00 | 1.30 |     |    |    |    |    |    |     |     |     |     |     |        | 6.32  |      |
| Stateburg         |               | .35  |      |     |   |   | .22  | .29  |     |    |    |    |    |     | .27  |      |     |     | .09  | 1.02 |     |    |    |    |    |    |     |     |     |     |     |        | 5.29  |      |
| Summerville       |               | .37  |      |     |   |   | .03  | 1.30 | .06 |    |    |    |    |     | .15  |      |     |     | T.   | .47  | .08 |    |    |    |    |    |     |     |     |     |     |        | 3.73  |      |
| Sumter            |               | .09  |      |     |   |   | .23  | 1.01 | .17 |    |    |    |    |     | .02  |      |     |     | 1.40 |      |     |    |    |    |    |    |     |     |     |     |     |        | 5.27  |      |
| Trenton           |               | .42  |      |     |   |   | .17  | 1.49 |     |    |    |    |    |     | .66  |      |     |     | .20  | 1.53 |     |    |    |    |    |    |     |     |     |     |     |        | 5.52  |      |
| Trial             |               | .17  |      |     |   |   | 1.65 |      |     |    |    |    |    |     | .27  |      |     |     | .20  | .57  |     |    |    |    |    |    |     |     |     |     |     |        | 3.80  |      |
| Walhalla          |               | 1.25 |      |     |   |   | .20  | .75  |     |    |    |    |    |     | 1.00 | 2.00 |     |     | 2.50 |      |     |    |    |    |    |    |     |     |     |     |     |        | 10.25 |      |
| Walterboro        |               | .49  | .07  |     |   |   | 1.21 | .01  |     |    |    |    |    |     | .19  |      |     |     | T.   | .79  | .08 |    |    |    |    |    |     |     |     |     |     |        | 3.91  |      |
| Wilmington, N. C. |               | .07  | 1.06 |     |   |   | .47  | .76  |     |    |    |    |    |     | .02  | .88  |     |     | .02  | .28  |     |    |    |    |    |    |     |     |     |     |     |        | 4.48  |      |
| Winnsboro         |               | .51  |      |     |   |   | .45  | 1.00 |     |    |    |    |    |     | .10  |      |     |     | T.   | 1.33 |     |    |    |    |    |    |     |     |     |     |     |        | 4.99  |      |
| Winthrop College  |               | .40  |      |     |   |   | .17  | .85  |     |    |    |    |    |     | .07  | 1.37 |     |     | 1.90 |      |     |    |    |    |    |    |     |     |     |     |     |        | 6.15  |      |
| Yemassee          |               | T.   | .93  |     |   |   | .45  | .66  |     |    |    |    |    |     | .15  |      |     |     | .01  | .91  |     |    |    |    |    |    |     |     |     |     |     |        | 4.17  |      |
| Yorkville         |               | .16  |      |     |   |   | .08  | .78  |     |    |    |    |    |     | .13  | 1.43 |     |     | 1.80 |      |     |    |    |    |    |    |     |     |     |     |     |        | 5.97  |      |

T. indicates trace, less than .01 inch.



581.05  
UNIC  
U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR APRIL, 1906.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

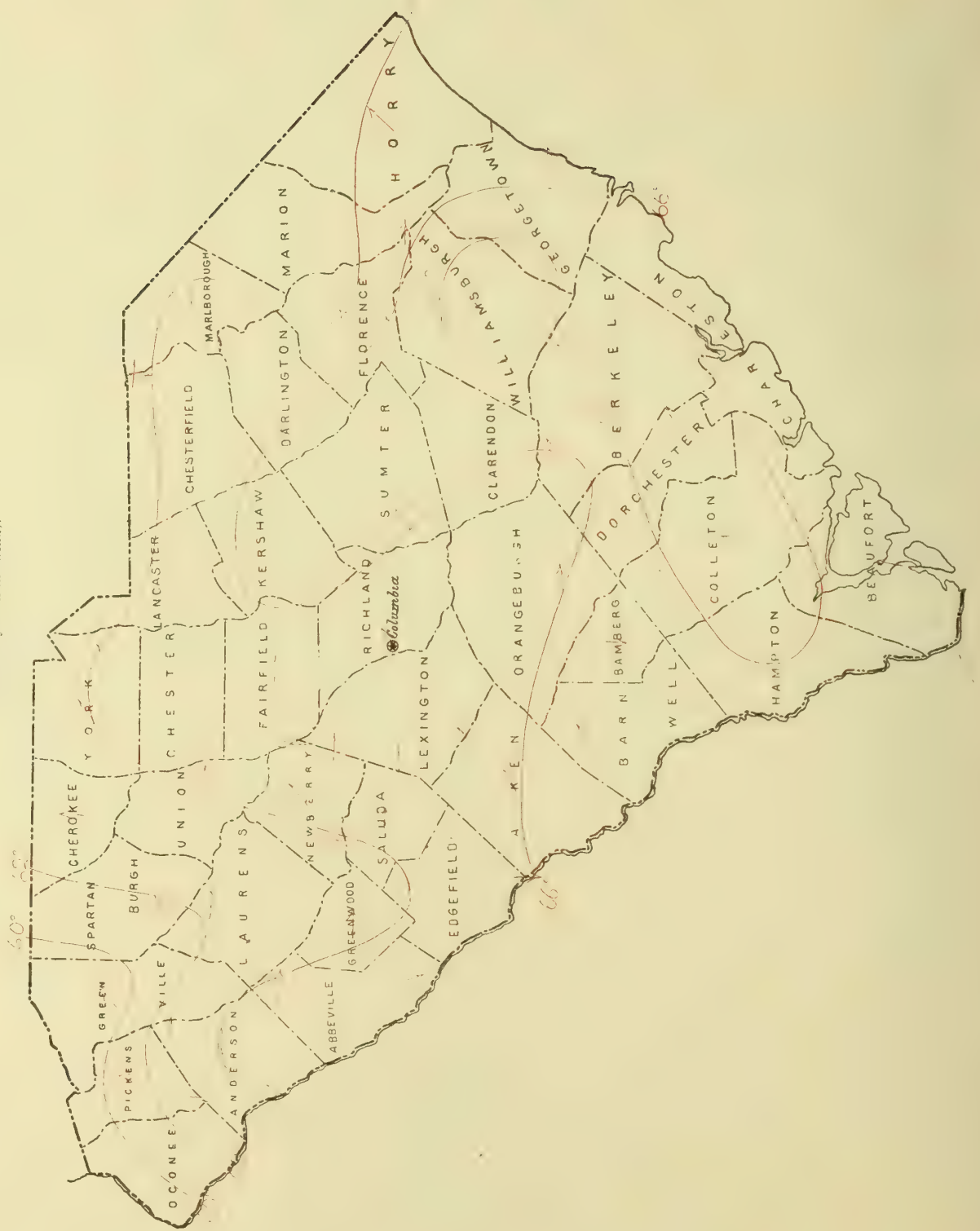


RALEIGH, N. C.  
WEATHER BUREAU OFFICE

MAY 26, 1906.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL, 1906.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. IX.

COLUMBIA, S. C., APRIL, 1906.

No. 4.

## GENERAL SUMMARY.

The mean temperature for the current April was above normal at all stations except at Seivern and at Trenton, and it was the second highest of record for the last thirteen years, the warmest April having been that of 1896 with a mean temperature of 66.9°. The coldest periods of the month were the first part of the first decade when frosts occurred generally over the State, and on the 24th when frosts were reported in the central and northern counties; heavy to killing frosts having been reported from several stations, and ice at Dillon. There were two unusually warm periods during the month; one during the first part of the second decade, and the other during the last half of the third decade.

There was a deficiency in precipitation over the entire State, ranging from 0.04 of an inch at Columbia to 4.50 inches at Gaffney. There were three distinct periods during which rain was recorded at practically every station, as follows: from the 8th to the 10th, from the 13th to the 16th, and from the 26th to the 30th, inclusive. Some localities had showers on the 1st, the 22nd and the 23rd. The heaviest rainfall occurred from the 26th to the 30th.

There were more clear days than usual, and fewer cloudy days.

## Temperature.

The mean temperature for April was 65.1°, which is 2.5° above normal. The highest local mean was 68.2° at Saint George, the lowest was 59.4° at Greenville. The extremes of temperature were a maximum of 93° at Bennettsville on the 29th and 30th, at Florence on the 30th, and at Heath Springs on the 29th, and a minimum of 28° at Seivern on the 24th, making the State range 65°. The greatest local monthly range was 62° at Seivern; the least was 42° at Charleston. The mean of the daily maximum temperatures was 78.2°, and of the daily minimum temperatures was 52.0°, making the average daily range 26.2°.

## Precipitation.

The average precipitation was 1.39 inches, which is 2.16 inches below normal. The greatest local monthly amount was 2.84 inches at Calhoun Falls; the least was 0.36 of an inch at Darlington. The greatest 24-hour fall was 1.54 inches at Clemson College on the 14th. The average number of days with 0.01 inch, or more, precipitation was 4, ranging from 1 at Florence to 8 at Newberry.

**HAIL.**—Hail was reported from the following stations: Batesburg 29th; Bennettsville, Cheraw 22nd; Clarks Hill 27th; Liberty 26th, 27th; Little Mountain 13th; Newberry and Pinopolis 26th.

## Wind.

The prevailing direction was from the southwest at 22 sta-

tions, from the west at 13 stations, from the south at 8 stations, from the north and the northwest at 3 stations each, and from the northeast and the east at 2 stations each.

**High Winds.**—Beaufort, Blackville, Charleston, Clarks Hill 6th; Bennettsville 27th; Bowman 5th, 6th, 14th; Cheraw 28th; Columbia, Winthrop College 14th; Liberty 5th, 6th, 25th; Little Mountain 25th; Newberry 14th, 23rd, 25th; Seivern 6th, 7th, 11th; Society Hill 5th, 14th, 23rd; Trial 23rd, 25th; Yorkville 6th, 14th, 23rd.

## Sunshine and Cloudiness.

The average number of clear days was 20, of partly cloudy days was 6, and of cloudy days was 4.

## BAROMETER AND WIND TABLE FOR APRIL, 1906.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 30.00      | 30.42    | 3     | 29.76   | 22    | 4.733           | 6.6             | 36                | S.         | 13    |
| Charleston.....       | 30.09      | 30.13    | 3     | 29.76   | 22    | 7.827           | 10.9            | 34                | W.         | 6     |
| Charlotte, N. C.....  | 30.08      | 30.47    | 3     | 29.70   | 25    | 5.674           | 7.0             | 34                | sw.        | 14    |
| Columbia.....         | 30.07      | 30.46    | 3     | 29.72   | 22    | 5.479           | 7.6             | 36                | sw.        | 14    |
| Savannah, Ga.....     | 30.11      | 30.42    | 3     | 29.76   | 22    | 5.759           | 8.0             | 30                | ne.        | 29    |
| Wilmington, N. C..... | 30.05      | 30.42    | 3     | 29.68   | 25    | 6.424           | 8.9             | 31                | W.         | 6     |
| Averages.....         | 30.07      | 30.47    | 3     | 29.70   | 25    | 5.993           | 8.3             | 36                | S.*        | 13    |

\* and sw. on the 14th.

## MISCELLANEOUS PHENOMENA.

**SOLAR HALOS.**—Solar halos were observed at Santuc on the 21st; at Winthrop College on the 20th.

**LUNAR HALOS.**—Lunar halos were observed at Charleston on the 4th, 7th, 8th; at Greenville on the 5th, 7th; at Stateburg on the 10th, and at Winthrop College on the 28th.

**DENSE FOGS.**—Fogs one hour, or longer, duration were observed as follows: at Bennettsville, Liberty, Santuc on the 10th; at Charleston, Stateburg, Trial on the 12th, 13th; at Columbia on the 13th, 30th; at Little Mountain, Newberry, Seivern on the 13th; at Summerville on the 12th, 14th; at Walterboro on the 11th, 12th, 13th; at Winthrop College on the 10th, 13th.

**FROSTS.**—Light frosts were noted at Batesburg, Bennettsville, Blackville, Clarks Hill, Dillon, Santuc, Society Hill, Yorkville on the 24th; at Beaufort, Bowman, Charleston, Trial on the 2nd, 3rd; at Columbia on the 2nd, 3rd, 24th; at Darlington, Little Mountain, Summerville on the 2nd, 24th; at Newberry on the 4th, 18th; at Seivern on the 18th; at Winthrop College on the 2nd, 7th. Heavy frost was noted at Bowman, Newberry, Winthrop College on the 24th. Killing frost was noted at Florence, Gaffney, Stateburg on the 24th; at Newberry on the 3rd; at Seivern on the 3rd, 24th.

**THUNDERSTORMS.**—There were 81 thunderstorms on 13 dates during April, distributed as follows: Aiken 28th; Barksdale, Beaufort, Charleston 14th, 29th; Batesburg 10th, 26th, 27th, 28th, 29th; Bennettsville, Cheraw 22nd; Blackville, Greenville 14th, 28th; Bowman 15th, 26th, 27th, 28th, 29th; Clarks Hill 27th; Columbia, Liberty 13th, 14th, 26th, 27th, 28th, 29th; Darlington 27th, 28th, 29th; Due West 28th, 29th; Little Mountain 9th, 13th, 14th, 26th, 27th; Newberry 9th, 14th, 26th, 27th, 29th, 30th; Pinopolis, Spartanburg 26th; Santuc 9th, 14th, 22nd, 26th, 27th; Seivern 14th, 27th, 28th, 30th; Stateburg 14th, 26th, 28th, 29th; Summerville 15th, 27th, 29th; Trenton 26th, 27th, 28th, 29th; Trial 26th, 27th; Winthrop College 22nd, 23rd, 27th; Yorkville 14th, 30th.



## OBSERVERS' REMARKS.

BARKSDALE.—The weather during April was favorable for farm work, but the soil was dry owing to the deficiency in precipitation.—J. T. Garrett. BATESBURG.—Neither the light frost on the 24th, nor the hail storm of the 29th did any material damage.—E. J. Hite. BEAUFORT.—The mean temperature was  $0.8^{\circ}$  above the April normal, and the precipitation was 0.77 of an inch below the normal amount. Fresh to brisk winds prevailed during the greater part of the time, which, together with much bright sunshine, quickly evaporated what rain had fallen.—Sidney M. Benton. BENNETTSVILLE.—The prevailing weather was dry and hot.—C. S. McCall. BOWMAN.—The month was unusually dry. Heavy frost formed on the morning of the 24th. The temperature and the sunshine were above normal.—B. O. Evans. DILLON.—The first "sweet-swamp" song bird was heard on the 11th. The first red-head bird was seen on the 15th. The first bat and bee-bird were seen on the 17th.—A. E. Rowell. HEATH SPRINGS.—The mean temperature was above the April normal, while the rainfall was below normal.—J. A. Weaner. LIBERTY.—The amount of rainfall was comparatively small, but it was well distributed throughout the month. Hail fell in considerable quantities on the 26th and the 27th.—Jno. T. Boggs. NEWBERRY.—An earthquake rumble was heard on the 18th but there was no accompanying jar. The frost on the 24th was not damaging.—W. G. Peterson. SANTUC.—The prevailing weather was fair during April, and the temperature was above the normal, with some short cool periods. The frost on the 24th was killing near streams.—E. W. Jeter. SOCIETY HILL.—The frost on the 2nd was very damaging. There was a harmful deficiency in precipitation.—Maj. J. J. Lucas. STATEBURG.—There was a frost on the 24th in low places but none formed on the hilltops. The deficiency in rainfall was considered favorable.—Dr. W. W. Anderson. SUMMERVILLE.—The frost on the 24th was slightly damaging. This was the warmest April in the last eight years.—Miss E. H. Gadsden. TRENTON.—The April precipitation was 2.56 inches below the normal amount, and is now 3.99 inches less than the average for the first four months of the year.—C. A. Long.

## APRIL WEATHER.

The April mean temperature shows an accelerated increase in warmth over March and sometimes, although rarely, the temperature rises to midsummer heat, as in 1896 when a maximum temperature of  $98^{\circ}$  was recorded at Gillisonville. This is the highest April maximum on record during the last thirteen years. The average increase in warmth from the beginning to the end of April is one degree for every three days, making the total increase about  $10^{\circ}$  for the whole month. Maximum temperatures of  $90^{\circ}$ , or higher, have been noted in ten of the last thirteen years. The maximum usually occurs in the eastern or southeastern portion of the State, although it has occurred two times in the northwestern portion, at Central in 1894 and at Spartanburg in 1901. The difference in temperature between the coast sections and the mountain re-

gions that is so marked a climatic feature of the State during the winter season, gradually decreases during this month and almost disappears during the summer season. The temperature has fallen below the freezing point in each of the last thirteen years, with an extreme minimum of  $21^{\circ}$  at Spartanburg in 1904. In all except two years the minimum has occurred in the extreme northwestern tier of counties, and the two exceptions were westward of the median line.

Light frosts are of frequent occurrence and no year has been free from frosts in April, although killing frosts rarely occur except in the mountain districts, as indicated by the region where the minimum temperature has usually occurred. The latest and most general killing frost of April occurred on the 17th in 1905 when tender vegetation was either seriously injured or totally destroyed in low places, to within about twenty miles of the coast. While this was the latest general killing frost of record, killing frosts occurred locally on the 24th of April in 1906. April frosts are a menace to the most tender vegetation only and only along streams or in other places that are very susceptible to frosts.

There are two general types of weather that cause precipitation in this State in April. Both are active during some years while during other years one or the other is practically absent, and again in other years both influences are faint, with the result that droughty conditions will prevail, and it is these influences that cause the wide differences in both the State averages and the local amounts that are such marked features of the April precipitation. The conditions, briefly stated, are first the passage of a general storm over or within close proximity to the State, second, when the pressure is slightly below normal and temperatures are abnormally high causing thunderstorms with usually heavy local rains, that are frequently in excess of three inches in 24 hours. It is when the larger part of the precipitation comes mainly from thunderstorms that the distribution is most uneven, but no part of the State is more likely than any other part to have the larger amounts, except that the rainfall is least along the immediate coast where the monthly amounts are almost without exception below the State average. Hail storms are common during thunderstorm periods that occur when abnormally high temperatures are closely followed by cool waves, which is frequently the case during April; but field crops are not far enough advanced to be materially injured by the hail.

The prevailing direction of the wind has been from the southwest in eight of the thirteen years, from the west in two years, and from the north, northeast and northwest in one year for each direction. East and southeast winds are infrequent and usually of short duration when they do occur.

There are usually more clear days than partly cloudy or wholly cloudy days. As a rule, April has the most pleasant weather of the year and it is not unlike the type of weather that prevails from the middle of May to the middle of June in the northern portions of the United States.

## ERRATA.

The following corrections should be made in the March Monthly report: On page 21 the mean temperature at Gaffney,  $46.1^{\circ}$ , should be  $46.2^{\circ}$ ; on pages 21 and 24 the total precipitation at Little Mountain, 6.52, should be 6.57; at Walterboro, 3.91 should be 3.89 inches.



## CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1906.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit |                            |          |       |         |       | Precipitation—in inches |        |                            |                       |               |                 | Sky.            |                 |                 |     | Observers.              |
|---------------------------------------|---------------|-----------------|-------------------------|-----------------------------------|----------------------------|----------|-------|---------|-------|-------------------------|--------|----------------------------|-----------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----|-------------------------|
|                                       |               |                 |                         | Mean.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.   | Total. | Departure from the normal. | Greatest in 24 hours. | Total annual. | Number of days. | Number of days. | Number of days. | Number of days. |     |                         |
| Aiken.                                | Aiken.        | 565             | 22                      | 65.8                              | +2.8                       | 90       | *27   | 37      | 3     | 41                      | 1.85   | -1.31                      | 1.10                  | 0             | 2               | 29              | 1               | 0               | SW. | C. F. McGraham M. D.    |
| Albiondale.                           | Barnwell.     | 186             | 18                      | 66.8                              | +2.3                       | 90       | 29    | 39      | 3     | 32                      | 0.94   | -1.31                      | 0.52                  | 0             | 2               | 28              | 0               | 2               | SW. | C. A. Glover.           |
| Anderson.                             | Anderson.     | 764             | 5                       | 64.2                              | +4.1                       | 90       | 30    | 37      | *1    | 39                      | 1.59   | -1.87                      | 1.12                  | 0             | 5               | 16              | 6               | 8               | SW. | H. H. Russell.          |
| Augusta, Ga.                          | Richmond.     | 134             | 35                      | 66.0                              | +1.8                       | 89       | 12    | 38      | 3     | 38                      | 0.97   | -2.37                      | 0.50                  | 0             | 6               | 11              | 7               | 9               | SW. | Weather Bureau.         |
| Barksdale.                            | Laurens.      | 680             | 5                       | 62.0                              | .....                      | 87       | 29    | 38      | *1    | 37                      | 1.15   | .....                      | 0.50                  | 0             | 3               | 20              | 9               | 1               | SW. | J. T. Garrett.          |
| Batesburg.                            | Lexington.    | 656             | 18                      | 64.8                              | +2.3                       | 90       | 12    | 36      | 3     | 40                      | 1.90   | -1.15                      | 0.45                  | 0             | 6               | 17              | 8               | 5               | SW. | E. J. Hite.             |
| Beaufort.                             | Beaufort.     | 20              | 20                      | 66.7                              | +0.8                       | 88       | 11    | 40      | 3     | 33                      | 1.43   | -0.77                      | 0.94                  | 0             | 3               | 24              | 6               | 0               | SW. | S. M. Benton.           |
| Bennettsville.                        | Marlboro.     | 151             | 5                       | 65.5                              | .....                      | 93       | *20   | 34      | 2     | 43                      | 0.16   | .....                      | 0.16                  | 0             | 5               | 22              | 8               | 0               | SW. | C. S. McCall.           |
| Blackville.                           | Barnwell.     | 296             | 18                      | 66.6                              | +2.5                       | 91       | 29    | 37      | *3    | 41                      | 1.05   | -2.55                      | 0.75                  | 0             | 3               | 21              | 5               | 1               | SW. | G. D. C. Lange.         |
| Blair.                                | Fairfield.    | 293             | 1                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 0.64   | .....                      | 0.56                  | 0             | 2               | 12              | 15              | 3               | SW. | T. S. McMeekin.         |
| Bowman.                               | Orangeburg.   | 160             | 5                       | 65.8                              | .....                      | 91       | 27    | 34      | 24    | 41                      | 0.79   | .....                      | 0.58                  | 0             | 4               | 22              | 8               | 0               | SW. | B. O. Evans.            |
| Calhoun Falls.                        | Abbeville.    | 508             | 13                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 2.84   | -0.43                      | 0.92                  | 0             | 6               | 26              | 1               | 3               | SW. | P. J. Phibbs.           |
| Canden.                               | Kershaw.      | 222             | 40                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.70   | -1.57                      | 1.30                  | 0             | 3               | 23              | 3               | 4               | SW. | W. C. Brown.            |
| Chappells.                            | Newberry.     | 492             | 1                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.28   | .....                      | 0.42                  | 0             | 4               | 18              | 3               | 9               | SW. | W. F. Glenn.            |
| Charleston.                           | Charleston.   | 48              | 37                      | 66.2                              | +1.6                       | 86       | 28    | 44      | 2     | 27                      | 1.17   | -2.41                      | 0.84                  | 0             | 3               | 20              | 9               | 1               | SW. | Weather Bureau.         |
| Charlotte, N. C.                      | Mecklenburg.  | 868             | 28                      | 63.2                              | +3.5                       | 88       | 30    | 37      | 24    | 33                      | 0.93   | -2.61                      | 0.57                  | 0             | 7               | 13              | 10              | 7               | SW. | Weather Bureau.         |
| Cheraw (1).                           | Chesterfield. | 144             | 18                      | 63.8                              | +2.2                       | 88       | *27   | 35      | 2     | 34                      | 1.98   | -1.20                      | 1.14                  | 0             | 3               | 13              | 7               | 10              | SW. | W. R. Godfrey.          |
| Cheraw (2).                           | .....         | 144             | 13                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 2.31   | -1.54                      | 1.22                  | 0             | 5               | 16              | 9               | 5               | SW. | Jno. H. Powe.           |
| Clarks Hill.                          | Edgefield.    | 500             | 4                       | 64.4                              | .....                      | 88       | 30    | 36      | 1     | 37                      | 1.47   | .....                      | 0.78                  | 0             | 3               | 19              | 2               | 9               | SW. | Wm. S. Middleton.       |
| Clemson College.                      | Oconee.       | 850             | 15                      | 63.0                              | +3.8                       | 87       | 29    | 32      | 2     | 38                      | 1.89   | 2.01                       | 1.54                  | 0             | 2               | 21              | 7               | 2               | SW. | Jno. N. Hook.           |
| Columbia.                             | Richland.     | 351             | 19                      | 65.2                              | +1.6                       | 88       | 30    | 38      | 3     | 37                      | 2.74   | -0.04                      | 0.93                  | 0             | 7               | 12              | 14              | 4               | SW. | Central Office.         |
| Conway.                               | Horry.        | 25              | 14                      | 64.4                              | .....                      | 90       | 27    | 32      | *2    | 39                      | 0.60   | -2.24                      | 0.30                  | 0             | 2               | 27              | 0               | 3               | SW. | Miss M. G. Quattlebarn. |
| Darlington.                           | Darlington.   | 175             | 11                      | 64.7                              | .....                      | 90       | *25   | 32      | 24    | 44                      | 0.36   | -3.98                      | 0.17                  | 0             | 5               | 20              | 8               | 2               | SW. | Miss F. G. McIver.      |
| Dillon.                               | Marion.       | 100             | 2                       | 63.8                              | .....                      | 92       | *27   | 32      | *1    | 45                      | 1.39   | .....                      | 1.39                  | 0             | 5               | .....           | .....           | .....           | SW. | A. E. Rowell.           |
| Due West.                             | Abbeville.    | 730             | 5                       | 64.4                              | .....                      | 86       | 30    | 40      | *1    | 32                      | 1.60   | .....                      | 0.70                  | 0             | 5               | 15              | 7               | 8               | SW. | Rev. O. Y. Bonner.      |
| Edisto.                               | Bamberg.      | 127             | 13                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 0.74   | -3.07                      | 0.49                  | 0             | 3               | 26              | 1               | 3               | SW. | Mrs. M. Thompson.       |
| Ellingham.                            | Florence.     | 106             | 14                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.40   | -1.58                      | 0.75                  | 0             | 2               | 26              | 0               | 4               | SW. | H. B. McCall.           |
| Enoree.                               | Spartanburg.  | 987             | 1                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 0.70   | .....                      | 0.60                  | 0             | 2               | 21              | 1               | 7               | SW. | J. W. King.             |
| Florence.                             | Florence.     | 136             | 18                      | 63.8                              | +1.8                       | 93       | 30    | 34      | 24    | 48                      | 0.69   | -2.62                      | 0.69                  | 0             | 1               | 21              | 2               | 7               | SW. | H. K. Gilbert.          |
| Gaffney.                              | Cherokee.     | 893             | 10                      | 62.9                              | .....                      | 90       | 30    | 33      | *2    | 41                      | 1.35   | 4.50                       | 0.76                  | 0             | 3               | 17              | 10              | 3               | SW. | B. E. Camp.             |
| Georgetown.                           | Georgetown.   | 12              | 13                      | 64.8                              | +1.8                       | 86       | 26    | 38      | 1     | 29                      | 1.25   | -2.07                      | 0.85                  | 0             | 3               | 28              | 2               | 0               | SW. | Reid Whitford.          |
| Greenville.                           | Greenville.   | 980             | 14                      | 59.4                              | +1.7                       | 85       | 25    | 31      | 3     | 40                      | 1.35   | -3.06                      | 0.85                  | 0             | 5               | 23              | 1               | 6               | SW. | Mrs. S. A. Crittenden.  |
| Greenwood.                            | Greenwood.    | 671             | 18                      | 63.8                              | +2.7                       | 87       | 30    | 40      | *1    | 33                      | 2.28   | -1.63                      | 1.21                  | 0             | 4               | 18              | 3               | 9               | SW. | M. M. Calhoun.          |
| Heath Springs.                        | Lancaster.    | 568             | 5                       | 65.3                              | .....                      | 93       | 29    | 33      | 3     | 36                      | 0.97   | .....                      | 0.74                  | 0             | 4               | 19              | 9               | 2               | SW. | J. A. Weaver.           |
| Kingstree (1).                        | Williamsburg. | 54              | 18                      | 68.0                              | +5.1                       | 86       | *25   | 41      | 24    | 33                      | 2.43   | -0.26                      | 1.07                  | 0             | 4               | 23              | 4               | 3               | SW. | J. A. Scott.            |
| Kingstree (2).                        | .....         | 54              | 12                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 2.43   | -0.77                      | 1.07                  | 0             | 4               | 21              | 1               | 8               | SW. | A. O. Matthews.         |
| Liberty.                              | Pickens.      | 900             | 12                      | 64.0                              | +4.0                       | 88       | 30    | 33      | 24    | 41                      | 2.62   | -1.70                      | 1.05                  | 0             | 7               | 16              | 12              | 2               | SW. | Jno. T. Boggs.          |
| Little Mountain.                      | Newberry.     | 650             | 13                      | 64.8                              | +2.6                       | 86       | *25   | 39      | *2    | 32                      | 1.49   | -2.94                      | 0.35                  | 0             | 6               | 14              | 14              | 2               | SW. | John M. Sease, M. D.    |
| Newberry.                             | Newberry.     | 502             | 2                       | 64.7                              | +3.3                       | 89       | 30    | 34      | 3     | 41                      | 1.82   | -2.60                      | 0.47                  | 0             | 8               | 10              | 14              | 6               | SW. | W. G. Peterson.         |
| Pelzer.                               | Anderson.     | 873             | 1                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.92   | .....                      | 0.65                  | 0             | 6               | 23              | 1               | 6               | SW. | John M. Ward.           |
| Pinopolis.                            | Berkeley.     | 54              | 13                      | 65.6                              | +3.6                       | 86       | *27   | 41      | 3     | .....                   | 0.73   | -2.78                      | 0.73                  | 0             | 1               | 27              | 0               | 3               | SW. | E. P. Ravenel.          |
| St. Georges.                          | Dorchester.   | 109             | 18                      | 68.2                              | +4.6                       | 89       | 27    | 40      | 2     | 33                      | 0.60   | -2.60                      | 0.30                  | 0             | 2               | 23              | 0               | 7               | SW. | G. T. Lewis.            |
| St. Matthew.                          | Orangeburg.   | 269             | 18                      | 64.6                              | +0.6                       | 86       | *25   | 39      | 1     | 44                      | 1.07   | -2.55                      | 0.45                  | 0             | 4               | 29              | 0               | 1               | SW. | J. S. Warmamaker.       |
| St. Stephen.                          | Berkeley.     | 73              | 14                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.80   | -0.98                      | 1.20                  | 0             | 4               | 21              | 3               | 6               | SW. | C. T. Shuler.           |
| Saluda.                               | Saluda.       | 536             | 5                       | 64.8                              | .....                      | 89       | 30    | 32      | 24    | 39                      | 1.44   | .....                      | 0.51                  | 0             | 7               | 27              | 0               | 3               | SW. | Alvin Etheridge.        |
| Santuc.                               | Union.        | 512             | 13                      | 63.4                              | +3.5                       | 90       | 3     | 34      | *3    | 42                      | 1.67   | -2.33                      | 0.98                  | 0             | 4               | 18              | 10              | 2               | SW. | B. W. Jeter.            |
| Savannah, Ga.                         | Chatham.      | 71              | 37                      | 67.6                              | +1.6                       | 91       | 29    | 42      | 1     | 30                      | 1.17   | -2.30                      | 1.12                  | 0             | 3               | 17              | 10              | 3               | SW. | Weather Bureau.         |
| Seivern.                              | Aiken.        | 482             | 5                       | 62.4                              | -1.7                       | 90       | 30    | 28      | 24    | 52                      | 2.43   | -1.92                      | 1.26                  | 0             | 4               | 17              | 10              | 3               | SW. | Geo. C. Gunter.         |
| Smiths Mills.                         | Williamsburg. | 62              | 11                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 1.55   | -2.47                      | 1.03                  | 0             | 3               | 24              | 0               | 6               | SW. | H. van Keuren.          |
| Society Hill.                         | Darlington.   | 192             | 15                      | 64.8                              | +2.5                       | 87       | *27   | 36      | 1     | 33                      | 0.59   | -3.64                      | 0.45                  | 0             | 4               | 20              | 8               | 2               | SW. | J. J. Lucas.            |
| Spartanburg.                          | Spartanburg.  | 875             | 29                      | 66.4                              | +3.0                       | 90       | 3     | 35      | 2     | 43                      | 1.34   | -2.82                      | 0.57                  | 0             | 5               | 18              | 9               | 3               | SW. | F. P. Robinson.         |
| Stateburg.                            | Sumter.       | 500             | 29                      | 66.4                              | +3.6                       | 88       | *25   | 37      | 2     | 38                      | 0.94   | -2.15                      | 0.51                  | 0             | 5               | 10              | 10              | 10              | SW. | W. W. Anderson, M. D.   |
| Summerville.                          | Dorchester.   | 175             | 9                       | 66.4                              | +3.8                       | 92       | *27   | 35      | *2    | 43                      | 1.55   | -3.50                      | 1.31                  | 0             | 3               | 18              | 11              | 1               | SW. | Miss E. H. Gadsden.     |
| Sumter.                               | Sumter.       | 169             | 5                       | 66.7                              | .....                      | 92       | 30    | 35      | *2    | 41                      | 1.50   | .....                      | 1.00                  | 0             | 3               | 17              | 13              | 0               | SW. | H. A. Moses.            |
| Trenton.                              | Edgefield.    | 620             | 13                      | 64.3                              | -0.4                       | 87       | *25   | 40      | 1     | 46                      | 1.57   | -2.56                      | 1.09                  | 0             | 4               | 15              | 9               | 1               | SW. | C. A. Long.             |
| Trials.                               | Berkeley.     | 85              | 20                      | 65.2                              | +3.3                       | 90       | 30    | 34      | 2     | 39                      | 1.21   | -1.36                      | 0.89                  | 0             | 4               | 12              | 13              | 5               | SW. | Etsell Gaillard.        |
| Walhalla.                             | Oconee.       | 1061            | 15                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....                 | .....         | .....           | .....           | .....           | .....           | SW. | F. B. Douthitt.         |
| Walterboro.                           | Colleton.     | 69              | 3                       | 64.8                              | .....                      | 91       | *11   | 33      | 3     | 43                      | 1.50   | .....                      | 0.79                  | 0             | 2               | 22              | 8               | 0               | SW. | J. A. Westerberg.       |
| Wilmington, N. C.                     | New Hanover.  | 52              | 37                      | 63.4                              | +1.9                       | 88       | 27    | 37      | 2     | 30                      | 0.49   | -2.47                      | 0.21                  | 0             | 3               | 14              | 15              | 1               | SW. | Weather Bureau.         |
| Winnboro.                             | Fairfield.    | 545             | 17                      | 64.7                              | +3.5                       | 89       | 30    | 38      | *2    | 32                      | 1.65   | -1.28                      | 0.63                  | 0             | 4               | 22              | 8               | 0               | SW. | John W. Seigler.        |
| Winthrop College.                     | York.         | 690             | 7                       | 63.8                              | +2.4                       | 89       | 30    | 36      | *2    | 34                      | 1.22   | -2.14                      | 0.80                  | 0             | 5               | 19              | 9               | 2               | SW. | E. R. Rivers.           |
| Yemassee.                             | Beaufort.     | 23              | 11                      | 64.6                              | +0.6                       | 92       | 29    | 36      | *2    | 38                      | 1.20   | -1.87                      | 1.00                  | 0             | 3               | 23              | 2               | 5               | SW. | J. G. Hutson.           |
| Yorkville.                            | York.         | 680             | 18                      | 65.7                              | +4.1                       | 92       | 30    | 38      | 2     | 40                      | 2.25   | -1.53                      | 1.13                  | 0             | 4               | 12              | 11              | 7               | SW. | J. R. Schorb.           |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 65.1                              | +2.5                       | 93       | *29   | 28      | 24    | 52                      | 1.39   | -2.16                      | 1.54                  | 0             | 4               | 20              | 6               | 4               | SW. |                         |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
§ Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc.

## Temperature, Rainy Days and Wind.

## Precipitation.

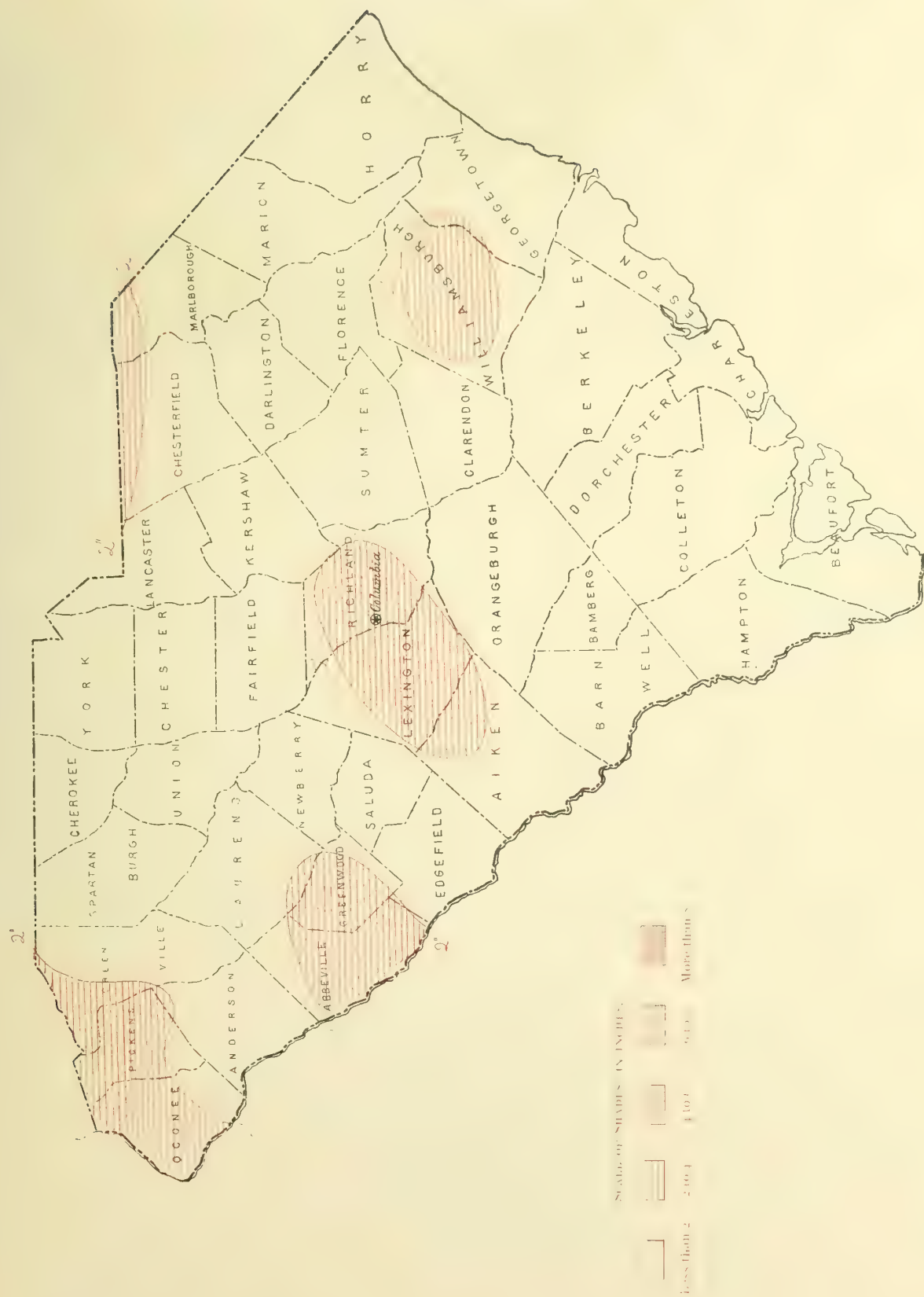
| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. | Year.   | State Average. | Greatest Monthly. | Place.         | Least Monthly. | Place.         |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|---------|----------------|-------------------|----------------|----------------|----------------|
| 1894 .. | 62.6       | 73.2      | 52.0      | 95            | 30           | 6           | SW.               | 1894... | 2.01           | 6.05              | Cheraw.        | 0.53           | Charleston.    |
| 1895 .. | 61.4       | 71.6      | 51.5      | 94            | 28           | 10          | SW.               | 1895... | 5.55           | 9.80              | Stateburg.     | 3.10           | Shaw's Fork.   |
| 1896 .. | 66.9       | 78.9      | 55.3      | 98            | 30           | 4           | SW.               | 1896... | 1.31           | 2.46              | Mt. Carmel.    | 0.19           | Yemassee.      |
| 1897 .. | 62.2       | 73.5      | 50.8      | 95            | 31           | 9           | SW.               | 1897... | 3.24           | 8.40              | Walhalla.      | 1.41           | Gillisonville. |
| 1898 .. | 58.0       | 69.4      | 46.7      | 92            | 26           | 8           | SW.               | 1898... | 5.05           | 7.61              | Edisto.        | 2.50           | Charleston.    |
| 1899 .. | 60.0       | 70.9      | 49.2      | 91            | 27           | 7           | n.                | 1899... | 3.02           | 5.57              | Smiths Mill.   | 1.32           | Winnboro.      |
| 1900 .. | 62.4       | 73.5      | 51.2      | 90            | 24           | 9           | ne.               | 1900... | 5.41           | 10.32             | Shaw's Fork.   | 2.35           | Georgetown.    |
| 1901 .. | 56.0       | 66.5      | 45.4      | 89            | 30           | 7           | nw.               | 1901... | 5.03           | 10.58             | Yorkville.     | 1.64           | Charleston.    |
| 1902 .. | 60.4       | 72.0      | 48.8      | 91            | 24           | 7           | w.                | 1902... | 2.18           | 3.79              | Santuc.        | 0.87           | Walhalla.      |
| 1903 .. | 60.4       | 71.8      | 48.9      | 88            | 26           | 8           | w.                | 1903... | 2.95           | 5.55              | Liberty.       | 0.85           | Beaufort.      |
| 1904 .. | 59.2       | 71.7      | 47.3      | 89            | 21           | 6           | SW.               | 1904... | 1.34           | 2.45              | Liberty.       | 0.17           | Charleston.    |
| 1905 .. | 62.8       | 74.5      | 51.2      | 92            | 25           | 9           | SW.               | 1905... | 3.83           | 7.51              | Columbia.      | 2.00           | Burkedale.     |
| 1906 .. | 65.1       | 78.2      | 52.0      | 93            | 31           | 4           | SW.               | 1906... | 1.39           | 2.84              | Calhoun Falls. | 0.36           | Darlington.    |







# TOTAL PRECIPITATION FOR APRIL, 1906.



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

APRIL, 1906

## DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1906.

| STATIONS.         | Day of Month. |   |   |   |   |     |   |   |     |     |     |    |     |      |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | Total. |
|-------------------|---------------|---|---|---|---|-----|---|---|-----|-----|-----|----|-----|------|------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|--------|
|                   | 1             | 2 | 3 | 4 | 5 | 6   | 7 | 8 | 9   | 10  | 11  | 12 | 13  | 14   | 15   | 16  | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   |        |
| Aiken             |               |   |   |   |   |     |   |   |     |     |     |    |     | 1.10 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.85 |        |
| Allendale         |               |   |   |   |   |     |   |   |     |     |     |    |     | .52  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.59 |        |
| Anderson          |               |   |   |   |   |     |   |   | .08 |     |     |    | .13 | 1.12 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.94 |        |
| Augusta, Ga.      |               |   |   |   |   |     |   |   | T.  |     |     |    | .12 | .27  | .04  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.59 |        |
| Barksdale         |               |   |   |   |   |     |   |   |     |     |     |    |     | .25  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.15 |        |
| Batesburg         |               |   |   |   |   |     |   |   | .21 |     |     |    |     | .30  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.90 |        |
| Beaufort          |               |   |   |   |   |     |   |   | .02 |     |     |    |     | .94  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.43 |        |
| Bennettsville     |               |   |   |   |   |     |   |   | .04 |     |     |    |     | .02  | .14  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.05 |        |
| Blackville        |               |   |   |   |   |     |   |   |     |     |     |    |     | .75  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.46 |        |
| Blairs            |               |   |   |   |   |     |   |   |     |     |     |    |     | .56  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.05 |        |
| Bowman            |               |   |   |   |   |     |   |   | .08 |     |     |    |     | .16  | .58  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.64 |        |
| Calhoun Falls     |               |   |   |   |   |     |   |   | .62 |     |     |    |     | .22  | .48  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.79 |        |
| Camden            |               |   |   |   |   |     |   |   |     |     |     |    |     | 1.30 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.84 |        |
| Chappells         |               |   |   |   |   |     |   |   |     |     |     |    |     | .40  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.70 |        |
| Charleston        |               |   |   |   |   |     |   |   | T.  | .36 |     |    |     | .75  | .09  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.28 |        |
| Charlotte, N. C.  |               |   |   |   |   |     |   |   | .15 | .01 |     |    |     | .57  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.17 |        |
| Cheraw(1)         | T.            |   |   |   |   |     |   |   | .01 | T.  |     |    |     | .83  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.93 |        |
| Cheraw(2)         | T.            |   |   |   |   |     |   |   | .01 | .02 |     |    |     | 1.03 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.68 |        |
| Clark's Hill      |               |   |   |   |   |     |   |   | .10 |     |     |    |     | T.   | .59  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.31 |        |
| Clemson College   |               |   |   |   |   |     |   |   |     |     |     |    |     | .59  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.47 |        |
| Columbia          |               |   |   |   |   |     |   |   | .08 |     |     |    |     | T.   | 1.54 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.89 |        |
| Conway            |               |   |   |   |   |     |   |   |     | T.  |     |    |     | .72  | .04  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.74 |        |
| Darlington        |               |   |   |   |   |     |   |   | .04 |     |     |    |     | .13  | .17  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.60 |        |
| Dillon            | .01           |   |   |   |   |     |   |   | .14 |     |     |    |     | .01  | 1.09 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.36 |        |
| Due West          |               |   |   |   |   |     |   |   | .70 |     |     |    |     | .52  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.34 |        |
| Edisto            |               |   |   |   |   |     |   |   |     |     |     |    |     | .49  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.60 |        |
| Edlingham         |               |   |   |   |   |     |   |   | T.  |     |     |    |     | .75  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.74 |        |
| Enoree            |               |   |   |   |   |     |   |   | .10 |     |     |    |     | .60  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.40 |        |
| Florence          |               |   |   |   |   |     |   |   |     |     |     |    |     |      |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.70 |        |
| Gaffney           |               |   |   |   |   |     |   |   |     |     |     |    |     |      |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.60 |        |
| Georgetown        |               |   |   |   |   |     |   |   |     |     |     |    |     | .76  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.33 |        |
| Greenville        |               |   |   |   |   |     |   |   | T.  |     |     |    |     | .85  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.25 |        |
| Greenwood         |               |   |   |   |   |     |   |   | .12 |     |     |    |     | .05  | .82  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.35 |        |
| Heath Springs     |               |   |   |   |   |     |   |   | .22 |     |     |    |     | 1.21 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.28 |        |
| Kingstree(1)      |               |   |   |   |   |     |   |   | T.  | .10 |     |    |     | .74  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.97 |        |
| Kingstree(2)      |               |   |   |   |   |     |   |   |     |     |     |    |     | 1.07 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.43 |        |
| Liberty           |               |   |   |   |   |     |   |   |     |     |     |    |     | 1.07 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.62 |        |
| Little Mountain   |               |   |   |   |   | .02 |   |   | T.  | .25 |     |    |     | 1.05 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.49 |        |
| Newberry          |               |   |   |   |   |     |   |   | .35 |     |     |    |     | .08  | .30  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.82 |        |
| Pelzer            |               |   |   |   |   |     |   |   | .47 |     |     |    |     | .01  | .20  | .30 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.92 |        |
| Pinopolis         |               |   |   |   |   |     |   |   |     |     |     |    |     | .22  | .64  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.73 |        |
| St. Georges       |               |   |   |   |   |     |   |   |     |     |     |    |     | .73  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.44 |        |
| St. Matthew       |               |   |   |   |   |     |   |   |     |     |     |    |     | .30  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.07 |        |
| St. Stephen       |               |   |   |   |   |     |   |   |     |     |     |    |     | .45  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.60 |        |
| Saluda            |               |   |   |   |   |     |   |   |     |     |     |    |     | 1.20 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.80 |        |
| Santuc            |               |   |   |   |   |     |   |   | .39 |     |     |    |     | .20  | .14  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.44 |        |
| Savannah, Ga.     |               |   |   |   |   |     |   |   | .14 |     |     |    |     | T.   | .98  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.67 |        |
| Seivern           |               |   |   |   |   |     |   |   | .04 |     |     |    |     | 1.12 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.17 |        |
| Smiths Mills      |               |   |   |   |   |     |   |   | T.  |     |     |    |     | T.   | .12  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.43 |        |
| Society Hill      |               |   |   |   |   |     |   |   |     |     | .12 |    |     | 1.03 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.55 |        |
| Spartanburg       |               |   |   |   |   |     |   |   |     |     |     |    |     | .45  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.59 |        |
| Stateburg         |               |   |   |   |   |     |   |   | T.  | .12 |     |    |     | T.   | .57  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.34 |        |
| Summerville       |               |   |   |   |   |     |   |   | .03 |     |     |    |     | .21  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.94 |        |
| Sumter            |               |   |   |   |   |     |   |   |     |     |     |    |     | T.   | 1.31 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.55 |        |
| Trenton           |               |   |   |   |   |     |   |   |     |     |     |    |     | 1.00 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.50 |        |
| Trial             |               |   |   |   |   |     |   |   | .17 |     |     |    |     | .31  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.57 |        |
| Walhalla          |               |   |   |   |   |     |   |   | T.  |     |     |    |     | .89  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.21 |        |
| Walterboro        |               |   |   |   |   |     |   |   |     |     |     |    |     |      |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |        |
| Wilmington, N. C. |               |   |   |   |   |     |   |   |     |     |     |    |     | T.   | .79  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.50 |        |
| Winnabow          |               |   |   |   |   |     |   |   | .18 |     |     |    |     | .21  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.49 |        |
| Winthrop College  |               |   |   |   |   |     |   |   | .12 |     |     |    |     | .03  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.65 |        |
| Yemassee          |               |   |   |   |   |     |   |   | .08 |     |     |    |     | .13  | .80  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.22 |        |
| Yorkville         |               |   |   |   |   |     |   |   | .01 |     |     |    |     | 1.00 |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.20 |        |
|                   |               |   |   |   |   |     |   |   | .10 |     |     |    |     | .82  |      |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.25 |        |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MAY, 1906.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

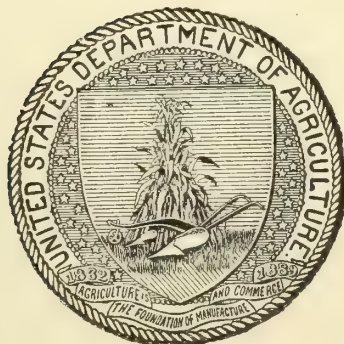
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

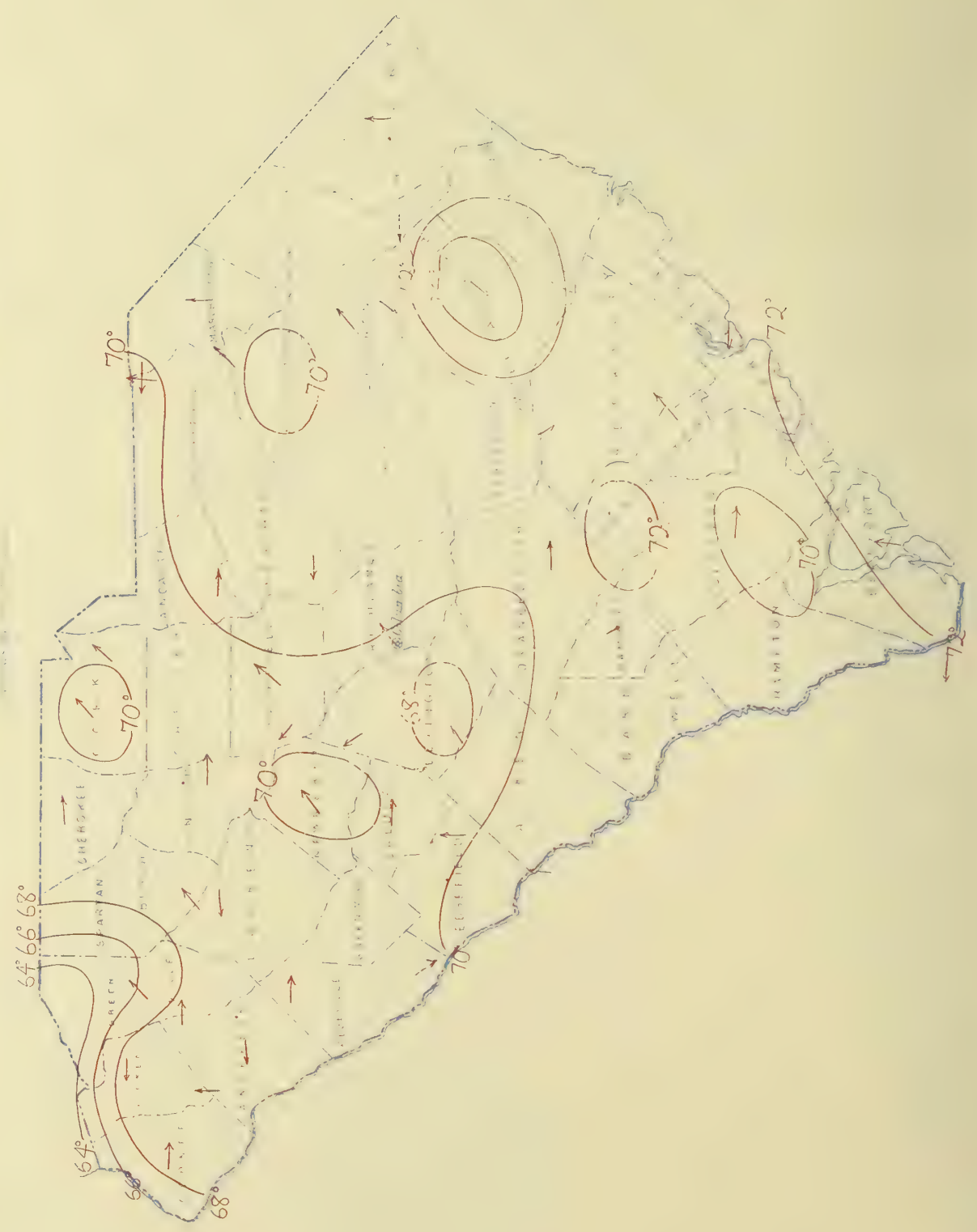
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

JUNE 27, 1906.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MAY 1906





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

VOL. IX.

COLUMBIA, S. C., MAY, 1906.

No. 5.

## GENERAL SUMMARY.

The variations of the weather were much wider during the current May than is usual to the month, in respect to temperature, especially during the first half of the month, as both higher and lower temperatures were then noted than have been previously recorded. The maximum temperature on May 2nd, was the highest of record during a period of thirty-six years at Charleston, while on the 10th the lowest May temperatures ever recorded were noted at a number of stations, and the State record for minimum temperatures was lowered four degrees. Temperatures rose slowly from the 11th to the 18th and 19th, when the warmest weather of the month occurred over practically the entire State. Nearly normal temperatures prevailed from the 20th to the end of the month. The most noteworthy temperature feature was the occurrence of a light frost on the 10th, in exposed places, over the entire State.

Showers and thunderstorms were noted in all parts of the State from the 1st to the 6th, inclusive, while on the 7th and morning of the 8th a general rain occurred, with heavy amounts locally. No rain was noted at any station from the 9th to the 14th, inclusive, and only widely scattered very light showers occurred from the 15th to the 24th, inclusive. A period of rainy weather set in on the 25th and continued to the night of the 28th, while the last three days were without rain. The month's rainfall was unusually well distributed geographically, with the amounts ranging generally from 2 to 4 inches, except over comparatively small areas, where the amounts were either slightly less than two inches or slightly more than four inches.

There were more clear days than the combined number of partly cloudy days and cloudy days.

## Temperature.

The mean temperature for May was  $70.7^{\circ}$ , which is  $1.5^{\circ}$  below normal. The highest local mean was  $74.6^{\circ}$  at Kingstree, the lowest was  $64.3^{\circ}$  at Greenville. The monthly extremes of temperature were a maximum of  $99^{\circ}$  at Florence on the 19th, and a minimum of  $30^{\circ}$  at Seivern on the 10th, making the State range  $69^{\circ}$ . The greatest local monthly range was  $67^{\circ}$  at Seivern, the least was  $44^{\circ}$  at Saint George. The mean of the daily maximum temperatures was  $81.4^{\circ}$ , and of the daily minimum temperatures was  $60.0^{\circ}$ , making the average daily range  $21.4^{\circ}$ .

## Precipitation.

The average precipitation was 3.00 inches, which is 0.43 of an inch below normal. The greatest local monthly amount was 5.50 inches at Calhoun Falls, the least was 1.59 inches at

Bowman. The greatest 24-hour fall was 2.27 inches at Calhoun Falls on the 27th. The average number of days with 0.01 of an inch, or more, precipitation was 7, ranging from 4 at Barksdale, Clemson College, Due West, Edisto and Enoree to 12 at Walterboro.

EXCESSIVE PRECIPITATION.—At Calhoun Falls on the 27th 2.27 inches in 35 minutes; at Saint George on the 6th 1.45 inches in one hour.

HAIL.—Hail was noted at Anderson and Darlington on the 1st; at Barksdale and Liberty on the 27th; at Clarks Hill on the 7th; at Greenville on the 6th; and at Newberry on the 3rd.

## Wind.

The prevailing direction of the wind was from the southwest at 12 stations, from the west at 10 stations, from the east at 9 stations, from the south at 7 stations, from the north-east and the southeast at 4 stations each, from the northwest at 3 stations, and from the north at 1 station.

HIGH WINDS.—High winds occurred at Anderson and Winthrop College on the 1st; at Beaufort and Cheraw on the 22nd, 23rd, 24th; at Bowman and Summerville on the 21st, 22nd, 23rd, 24th, 25th; at Charleston on the 23rd; at Columbia and Liberty on the 6th; at Newberry on the 3rd, and at Yorkville on the 9th.

## Sunshine and Cloudiness.

The average number of clear days was 17, of partly cloudy days was 6, and of cloudy days was 8.

## MISCELLANEOUS PHENOMENA.

LUNAR HALOS.—Lunar halos were noted at Charleston on the 1st and 2nd; at Columbia and Winthrop College on the 1st; at Greenville on the 4th; at Santuc on the 2nd.

DENSE FOGS.—Dense fogs were noted at Charleston on the 18th; at Liberty and Yorkville on the 5th; at Columbia, Saluda, and Seivern on the 8th; and at Winthrop College on the 4th and 5th.

LIGHT FROSTS.—Light frosts were noted at Anderson, Batesburg, Beaufort, Bennettsville, Bowman, Charleston, Cheraw, Clarks Hill, Columbia, Dillon, Little Mountain, Newberry, Saluda, Santuc, Trenton, Winthrop College, Yorkville on the 10th; at Barksdale and Greenville on the 10th, 11th; at Seivern, Society Hill, and Spartanburg on the 9th.

THUNDERSTORMS.—Sixty-nine thunderstorms were reported during the month from twenty-two stations on thirteen dates, as follows: at Anderson on the 1st; at Barksdale on the 27th; at Batesburg on the 6th, 7th; at Beaufort on the 1st, 4th, 6th, 20th, 26th, 27th, 28th; at Bennettsville on the 7th, 27th; at Bowman on the 1st, 3rd, 6th, 28th; at Charleston on the 6th, 20th, 27th, 28th; at Clarks Hill, Saluda on the 7th; at Columbia, Santuc on the 1st, 3rd, 6th, 26th, 27th; at Darlington on the 1st, 3rd, 27th; at Greenville on the 6th; at Liberty on the 3rd, 6th, 26th, 27th; at Little Mountain on the 6th, 21st; at Newberry on the 3rd, 6th, 21st, 27th; at Seivern on the 2nd, 4th, 7th, 21st, 22nd, 27th, 28th; at Summerville on the 2nd, 7th, 21st, 22nd, 27th, 28th; at Trenton on the 1st, 3rd, 6th; at Trial on the 1st, 28th; at Winthrop College on the 6th, 7th, 19th; and at Yorkville on the 6th, 27th.

## ERRATA.

The following corrections should be made in the April, 1906, number of the Monthly Reports: On page 30, the mean minimum temperature at Little Mountain, 63.1, should be 53.1; on pages 29 and 32, the total precipitation at Darlington, 0.36, should be 0.37; at Dillon, 1.39, should be 1.34; at Gaffney, 1.35, should be 1.33.



## OBSERVERS' REMARKS.

BARKSDALE.—There was a heavy and somewhat damaging hail storm on the 27th.—J. T. Garrett. BATESBURG.—The frost on the 10th was very light. Thunderstorms occurred on two days.—E. J. Hite. BEAUFORT.—The minimum temperature on the 10th, at this place, was the lowest temperature recorded during the month of May since the establishment of this station. A severe wind and rain storm prevailed from the 22nd to the 24th, inclusive.—Sidney M. Benton. BENNETTSVILLE.—The weather generally was clear and pleasant after the 7th. Each of the two heavy rainfalls was followed by very low temperature that lasted several days.—C. S. McCall. LIBERTY.—The weather was generally favorable during the month, but the lack of rain caused the soil to become very dry up to the 25th when a period of copious rainfall began.—Jno. T. Boggs. NEWBERRY.—A heavy storm visited this station on the 3rd with 1.15 inches of rainfall in one hour. The frost on the 10th was light, but nipped very tender vegetation.—W. G. Peterson. SANTUC.—There was some very cool weather for this month, with frost on the 10th, that would have caused serious damage except that a fresh wind prevailed, which nipped very tender vegetation.—E. W. Jeter. SOCIETY HILL.—A light frost on the 9th did no serious damage. Both the rainfall and the temperature were below normal during the month.—Maj. J. J. Lucas. SUMMERVILLE.—Although the temperature was low enough for light frost on the 10th, none was observed.—Miss E. H. Gadsden. TRENTON.—The precipitation for the month was below the normal, and it is now 3.67 inches less than the average for the first five months of the year.—C. A. Long. YORKVILLE.—The frost on the 10th was confined to exposed localities.—J. R. Schorb.

## MAY WEATHER.

May is a transition month when spring merges gently into summer. The daily march of temperature during the first half of May is at about the same rate of increase in warmth as during the preceding month, but the rate decreases gradually and during the second half is much slower, especially during the third decade when the rate falls to about one degree for every five days. The average increase in heat, as shown by the daily normal temperatures, from the first to the last day is nearly one degree for every three and one-half days, making the total increase about 9°. The monthly maximum temperatures usually occur during the last ten days, although not invariably so, as in 1901 the maximum occurred on the 3rd and in 1902 it occurred on the 4th. The State maximum temperature has been above 95° in every year since records have become available, and in seven out of the fourteen years of record they have been above 100° with an extreme maximum of 106° at Gillisonville on the 30th, in 1898. This is as high a temperature as has been recorded in either August or September, and is within one degree of being as high as the highest in July, and is one degree higher than has been recorded in June. May cannot be classed as a summer month notwithstanding the annual occurrence of periods of intense heat, for there are, in nearly every year, periods of decidedly cool weather, but it is rarely cold enough for the formation of frost or ice, although in 1906 a minimum temperature of 30° was noted at Seivern and one of 32° at Greenville, while light frost was noted in exposed places from the mountains to the coast. The previous minimum temperature during the last fourteen years was 34°. In the two years noted above when the maximum occurred on the

3rd and 4th, respectively, the minimum in each year occurred on the 28th, but this was an anomaly, as the lowest temperatures usually occur during the first half of the month.

The precipitation is quite variable in respect to both its geographical distribution and average amounts from year to year, owing largely to the nature of the storms from which the May rains fall. It is a month of considerable thunderstorm frequency, ranking fourth in that respect and being outranked by the three following months only. It ranks second to June in the average number of hailstorms. Excessive rains of over three inches in twenty-four hours have occurred in six of the fourteen years with a maximum 24-hour fall of 6.25 inches at Winnsboro in 1901. Local droughts, or droughty conditions, occurred in most of the years, but a general drought has not been known since records began.

The prevailing winds in May are from the southwest, and there are nearly as many clear days, on an average, as there are both partly cloudy and cloudy days. All varieties of trees are in full leafage, and all vegetation wears its deepest green during this month.

## Temperature, Rainy Days and Wind.

| Year.   | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|---------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|
| 1894... | 70.7       | 80.8      | 60.6      | 98            | 38           | 9           | sw.               |
| 1895... | 69.0       | 79.0      | 59.5      | 101           | 34           | 9           | sw.               |
| 1896... | 76.7       | 88.6      | 65.7      | 104           | 42           | 8           | sw.               |
| 1897... | 69.3       | 81.3      | 57.3      | 97            | 38           | 6           | sw.               |
| 1898... | 73.8       | 86.5      | 51.2      | 106           | 39           | 5           | sw.               |
| 1899... | 73.7       | 85.3      | 62.1      | 100           | 45           | 5           | sw.               |
| 1900... | 70.2       | 81.8      | 58.5      | 96            | 38           | 5           | sw.               |
| 1901... | 71.6       | 82.6      | 60.2      | 99            | 40           | 11          | sw.               |
| 1902... | 74.0       | 85.5      | 62.4      | 101           | 42           | 8           | sw.               |
| 1903... | 70.7       | 80.8      | 60.6      | 104           | 44           | 9           | ne.               |
| 1904... | 70.7       | 83.7      | 57.4      | 99            | 38           | 7           | s.                |
| 1905... | 73.4       | 83.2      | 61.5      | 99            | 42           | 13          | sw.               |
| 1906... | 70.7       | 81.4      | 60.0      | 99            | 30           | 7           | sw.               |

## Precipitation.

| Year.    | State Average. | Greatest Monthly. | Place.            | Least Monthly. | Place.        |
|----------|----------------|-------------------|-------------------|----------------|---------------|
| 1894.... | 3.13           | 6.48              | St. Stephens.     | 1.20           | Trenton.      |
| 1895.... | 4.36           | 9.94              | Greenwood.        | 1.18           | Port Royal.   |
| 1896.... | 2.74           | 6.07              | Pinopolis.        | 0.52           | Charleston.   |
| 1897.... | 2.39           | 5.17              | St. Stephens.     | 0.88           | St. George.   |
| 1898.... | 1.35           | 6.31              | Trial.            | 0.55           | Central.      |
| 1899.... | 1.68           | 3.72              | Pinopolis.        | 0.53           | Canden.       |
| 1900.... | 2.37           | 4.99              | Yorkville.        | 1.17           | Society Hill. |
| 1901.... | 7.31           | 13.08             | Winthrop College. | 2.17           | Beaufort.     |
| 1902.... | 2.69           | 6.53              | Temperance.       | 0.29           | Liberty.      |
| 1903.... | 2.69           | 11.97             | Beaufort.         | 0.25           | Liberty.      |
| 1904.... | 2.04           | 4.67              | Walhalla.         | 0.32           | Sumter.       |
| 1905.... | 5.70           | 9.50              | Smiths Mill.      | 2.95           | Batesburg.    |
| 1906.... | 3.00           | 5.50              | Calhoun Falls.    | 1.59           | Bowman.       |

## BAROMETER AND WIND TABLE FOR MAY, 1906.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.02      | 30.45    | 13    | 29.58   | 28    | 5.089           | 6.8             | 28                | nw.        | 6     |
| Charleston        | 30.02      | 30.46    | 12    | 29.56   | 28    | 9.998           | 13.4            | 48                | ne.        | 23    |
| Charlotte, N. C.  | 30.04      | 30.43    | 13    | 29.55   | 28    | 4.678           | 6.3             | 36                | w.         | 25    |
| Columbia.         | 30.01      | 30.45    | 13    | 29.54   | 28    | 5.244           | 7.0             | 30                | sw.        | 6     |
| Savannah, Ga.     | 30.03      | 30.46    | 12    | 29.60   | 28    | 6.586           | 8.9             | 33                | e.         | 22    |
| Wilmington, N. C. | 30.01      | 30.45    | 12    | 29.52   | 28    | 6.543           | 8.8             | 33                | e.         | 23    |
| Averages.         | 30.02      | 30.46    | 12    | 29.52   | 28    | 6.356           | 8.5             | 48                | ne.        | 23    |



## CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1906.

| STATIONS.                                 | COUNTIES.         | Elevation—feet. | Temperature—degrees Fahrenheit |       |                            |          |       |         |       |              |        |        | Precipitation—inches       |          |        |                 |                 | Sky             |                    |                         |  |  | Observer. |
|---|-------------------|-----------------|--------------------------------|-------|----------------------------|----------|-------|---------|-------|--------------|--------|--------|----------------------------|----------|--------|-----------------|-----------------|-----------------|--------------------|-------------------------|--|--|-----------|
|   |                   |                 | Latitude of record.            | Mean. | Departure from the normal. | H. 21st. | Date. | Lowest. | Date. | Coldest day. | Range. | Total. | Departure from the normal. | Coldest. | Total. | Number of days. | Number of days. | Number of days. | Number of days.    | Number of days.         |  |  |           |
| Aiken.....                                | Aiken.....        | 565             | 22                             | 72.0  | +0.1                       | 97       | 5     | 43      | 25    | 37           | 2.30   | 1.53   | 1.00                       | 0        | 5      | 16              | 11              | 4               | sw.                | C. F. McGahan, M. D.    |  |  |           |
| Allendale.....                            | Barnwell.....     | 186             | 18                             | 71.6  | +1.0                       | 95       | 20    | 43      | 10    | 32           | 2.32   | -1.25  | 0.80                       | 0        | 8      | 18              | 0               | 13              | e.                 | C. A. Glover.           |  |  |           |
| Anderson.....                             | Anderson.....     | 704             | 5                              | 69.4  | +0.1                       | 93       | *10   | 38      | 10    | 33           | 4.93   | 1.47   | 1.81                       | 0        | 10     | 17              | 3               | 12              | e.                 | B. H. Russell.          |  |  |           |
| Angusta, Ga.....                          | Richmond.....     | 134             | 35                             | 71.2  | -0.8                       | 95       | 10    | 40      | 10    | 30           | 4.01   | 1.06   | 2.28                       | 0        | 8      | 16              | 3               | 12              | sc.                | Weather Bureau.         |  |  |           |
| Barksdale.....                            | Laurens.....      | 680             | 5                              | 69.6  | -1.7                       | 94       | 10    | 12      | *10   | 24           | 4.40   | 2.05   | 0                          | 4        | 10     | 13              | 2               | 11              | e.                 | J. T. Garrett.          |  |  |           |
| Batesburg.....                            | Lexington.....    | 686             | 18                             | 70.0  | -1.7                       | 95       | *10   | 30      | 10    | 30           | 2.61   | 1.05   | 0.85                       | 0        | 5      | 16              | 4               | 11              | sc.                | E. J. Hite.             |  |  |           |
| Beaufort.....                             | Beaufort.....     | 20              | 20                             | 72.2  | -1.9                       | 90       | 10    | 45      | 10    | 27           | 5.11   | +2.68  | 1.28                       | 0        | 11     | 17              | 8               | 6               | sc.                | S. M. Benton.           |  |  |           |
| Bennettsville.....                        | Marlboro.....     | 151             | 5                              | 70.4  | -0.9                       | 97       | 20    | 38      | 10    | 37           | 3.85   | 2.25   | 0                          | 6        | 17     | 9               | 4               | sc.             | C. S. McCall.      |                         |  |  |           |
| Blackville.....                           | Barnwell.....     | 296             | 18                             | 72.3  | -0.9                       | 97       | 19    | 38      | 10    | 36           | 5.45   | +1.64  | 1.70                       | 0        | 10     | 17              | 6               | 8               | sc.                | G. D. C. Lange.         |  |  |           |
| Blairs.....                               | Fairfield.....    | 293             | 1                              | 70.8  | -0.9                       | 97       | 19    | 36      | 10    | 38           | 2.67   | 0.76   | 0                          | 5        | 12     | 8               | 11              | sc.             | T. S. McMeekin.    |                         |  |  |           |
| Bowman.....                               | Orangeburg.....   | 160             | 5                              | 70.8  | -0.9                       | 97       | 19    | 36      | 10    | 38           | 1.59   | 0.88   | 0                          | 8        | 15     | 10              | 6               | w.              | B. O. Evans.       |                         |  |  |           |
| Calhoun Falls.....                        | Abbeville.....    | 508             | 13                             | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 2.74   | -0.47  | 1.80                       | 0        | 4      | 21              | 2               | 12              | nw.                | P. J. Pfeiffer.         |  |  |           |
| Camden.....                               | Kershaw.....      | 222             | 40                             | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 2.74   | -0.47  | 1.80                       | 0        | 8      | 23              | 3               | 5               | e.                 | W. C. Brown.            |  |  |           |
| Chappells.....                            | Newberry.....     | 402             | 1                              | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 2.74   | -0.47  | 1.80                       | 0        | 6      | 19              | 1               | 11              | e.                 | W. F. Glenn.            |  |  |           |
| Charleston.....                           | Charleston.....   | 48              | 37                             | 71.6  | -0.8                       | 92       | 17    | 47      | 10    | 25           | 2.91   | -1.11  | 1.13                       | 0        | 7      | 12              | 12              | 7               | e.                 | Weather Bureau.         |  |  |           |
| Charlotte, N. C.....                      | Mecklenburg.....  | 808             | 28                             | 67.8  | -0.6                       | 91       | 15    | 38      | 10    | 28           | 3.66   | -0.68  | 1.20                       | 0        | 11     | 12              | 9               | 10              | ne.                | Weather Bureau.         |  |  |           |
| Cheraw (1).....                           | Chesterfield..... | 144             | 18                             | 68.8  | -2.3                       | 91       | *2    | 37      | 10    | 33           | 2.32   | 1.61   | 0.52                       | 0        | 10     | 18              | 8               | 5               | sc.                | W. R. Godfrey.          |  |  |           |
| Cheraw (2).....                           | Chesterfield..... | 144             | 13                             | 68.8  | -2.3                       | 91       | *2    | 37      | 10    | 33           | 2.32   | 1.61   | 0.52                       | 0        | 10     | 21              | 4               | 6               | e.                 | Jno. H. Powe.           |  |  |           |
| Clarks Hill.....                          | Edgefield.....    | 500             | 4                              | 70.0  | -1.3                       | 93       | *18   | 36      | 10    | 33           | 3.53   | 0.73   | 0                          | 6        | 14     | 1               | 16              | sc.             | Wm. S. Middleton.  |                         |  |  |           |
| Clemson College.....                      | Oconee.....       | 850             | 15                             | 69.0  | -1.3                       | 90       | *2    | 39      | 10    | 31           | 2.74   | -0.47  | 1.80                       | 0        | 4      | 21              | 6               | 4               | sw.                | Jno. N. Hook.           |  |  |           |
| Columbia.....                             | Richland.....     | 351             | 19                             | 70.2  | -2.1                       | 93       | 19    | 40      | 10    | 29           | 2.25   | -1.61  | 1.14                       | 0        | 8      | 16              | 4               | 11              | sw.                | Central Office.         |  |  |           |
| Conway.....                               | Horry.....        | 25              | 14                             | 70.3  | -1.9                       | 97       | 19    | 40      | 10    | 38           | 2.41   | -1.05  | 1.25                       | 0        | 7      | 25              | 0               | 6               | sc.                | Miss M. G. Quattlebaum. |  |  |           |
| Darlington.....                           | Darlington.....   | 175             | 11                             | 69.5  | -1.9                       | 98       | 19    | 38      | 10    | 38           | 2.92   | +0.26  | 1.05                       | 0        | 6      | 14              | 15              | 2               | sc.                | Miss F. G. McIver.      |  |  |           |
| Dillon.....                               | Marion.....       | 100             | 2                              | 70.0  | -1.9                       | 97       | 19    | 35      | 10    | 41           | 2.24   | 0.83   | 0                          | 6        | 15     | 3               | 13              | w.              | A. E. Rowell.      |                         |  |  |           |
| Due West.....                             | Abbeville.....    | 730             | 5                              | 69.4  | -1.9                       | 91       | 19    | 40      | 10    | 31           | 2.85   | 0.95   | 0                          | 4        | 15     | 3               | 13              | w.              | Rev. O. Y. Bonner. |                         |  |  |           |
| Edisto.....                               | Bamberg.....      | 127             | 13                             | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 1.99   | -1.07  | 0.71                       | 0        | 4      | 19              | 3               | 9               | nw.                | Mrs. M. Thompson.       |  |  |           |
| Edlingham.....                            | Florence.....     | 106             | 14                             | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 2.74   | -0.76  | 0.75                       | 0        | 5      | 26              | 0               | 5               | ne.                | H. B. McCall.           |  |  |           |
| Enoree.....                               | Spartanburg.....  | 987             | 1                              | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 2.74   | -0.76  | 0.75                       | 0        | 4      | 16              | 0               | 15              | sw.                | J. W. King.             |  |  |           |
| Florence.....                             | Florence.....     | 136             | 18                             | 70.8  | -1.9                       | 99       | 19    | 38      | 10    | 39           | 2.12   | -1.62  | 0.60                       | 0        | 8      | 23              | 2               | 6               | sw.                | H. K. Gilbert.          |  |  |           |
| Gaffney.....                              | Cherokee.....     | 893             | 10                             | 68.2  | -1.9                       | 95       | *18   | 37      | 10    | 39           | 2.36   | -0.10  | 0.62                       | 0        | 8      | 15              | 6               | 10              | w.                 | B. F. Camp.             |  |  |           |
| Georgetown.....                           | Georgetown.....   | 12              | 13                             | 69.9  | -2.1                       | 90       | 2     | 45      | 10    | 38           | 2.26   | -1.09  | 0.80                       | 0        | 8      | 16              | 15              | 0               | sc.                | Reid Whitford.          |  |  |           |
| Greenville.....                           | Greenville.....   | 989             | 14                             | 64.3  | -3.7                       | 89       | *2    | 32      | 10    | 33           | 3.24   | -0.26  | 1.15                       | 0        | 7      | 20              | 1               | 10              | sw.                | Mrs. S. A. Crittenden.  |  |  |           |
| Greenwood.....                            | Greenwood.....    | 671             | 18                             | 69.7  | -1.9                       | 93       | *18   | 39      | 10    | 32           | 1.68   | -2.12  | 0.80                       | 0        | 6      | 18              | 0               | 13              | w.                 | M. M. Calhoun.          |  |  |           |
| Heath Springs.....                        | Lancaster.....    | 568             | 5                              | 72.0  | -1.9                       | 96       | 18    | 46      | 10    | 34           | 3.33   | 0.73   | 0                          | 7        | 15     | 10              | 6               | w.              | J. A. Weaver.      |                         |  |  |           |
| Kingstree (1).....                        | Williamsburg..... | 54              | 18                             | 74.6  | +2.3                       | 93       | 19    | 48      | 10    | 28           | 2.40   | -0.88  | 0.67                       | 0        | 7      | 22              | 3               | 6               | ne.                | J. A. Scott.            |  |  |           |
| Kingstree (2).....                        | Williamsburg..... | 54              | 12                             | 74.6  | +2.3                       | 93       | 19    | 48      | 10    | 28           | 2.40   | -0.69  | 0.60                       | 0        | 6      | 22              | 3               | 6               | ne.                | A. O. Matthews.         |  |  |           |
| Liberty.....                              | Pickens.....      | 900             | 12                             | 69.4  | -1.7                       | 95       | *18   | 38      | 10    | 35           | 3.36   | -0.43  | 1.02                       | 0        | 6      | 21              | 8               | 2               | e.                 | Jno. T. Boggs.          |  |  |           |
| Little Mountain.....                      | Newberry.....     | 630             | 13                             | 69.9  | -2.6                       | 94       | 19    | 39      | 10    | 29           | 2.79   | -0.36  | 1.20                       | 0        | 9      | 12              | 10              | 9               | sw.                | John M. Sease, M. D.    |  |  |           |
| Newberry.....                             | Newberry.....     | 502             | 2                              | 70.5  | -0.5                       | 96       | 19    | 36      | 10    | 36           | 4.50   | +2.00  | 1.80                       | 0        | 7      | 13              | 7               | 11              | sw.                | W. G. Peterson.         |  |  |           |
| Pelzer.....                               | Anderson.....     | 873             | 1                              | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 2.92   | 0.92   | 0                          | 7        | 17     | 2               | 12              | w.              | John M. Ward.      |                         |  |  |           |
| Pinopolis.....                            | Berkeley.....     | 54              | 13                             | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 2.92   | 0.92   | 0                          | 7        | 17     | 2               | 12              | w.              | E. P. Ravenel.     |                         |  |  |           |
| St. Georges.....                          | Dorchester.....   | 109             | 18                             | 73.6  | +1.3                       | 93       | 20    | 49      | 10    | 28           | 2.47   | -0.67  | 1.45                       | 0        | 5      | 21              | 0               | 10              | sc.                | G. T. Lewis.            |  |  |           |
| St. Matthew.....                          | Orangeburg.....   | 269             | 18                             | 69.8  | -2.5                       | 90       | 19    | 42      | 11    | 31           | 2.61   | 0.69   | 1.00                       | 0        | 7      | 22              | 0               | 9               | sc.                | J. S. Warramaker.       |  |  |           |
| St. Stephen.....                          | Berkeley.....     | 73              | 14                             | 70.0  | -1.3                       | 90       | 19    | 39      | 10    | 31           | 2.98   | -1.57  | 0.85                       | 0        | 6      | 21              | 2               | 8               | sc.                | C. T. Shuler.           |  |  |           |
| Saluda.....                               | Saluda.....       | 536             | 5                              | 70.0  | -1.3                       | 90       | 19    | 35      | 10    | 25           | 1.98   | 1.24   | 0                          | 7        | 19     | 3               | 9               | w.              | Alvin Etheridge.   |                         |  |  |           |
| Santuc.....                               | Union.....        | 512             | 13                             | 68.9  | -1.1                       | 95       | 19    | 36      | 10    | 37           | 2.62   | -0.23  | 0.94                       | 0        | 7      | 13              | 7               | 11              | w.                 | E. W. Jeter.            |  |  |           |
| Savannah, Ga.....                         | Chatham.....      | 71              | 37                             | 72.0  | -0.9                       | 93       | 2     | 47      | 10    | 28           | 5.50   | +2.58  | 2.03                       | 0        | 15     | 13              | 8               | 10              | e.                 | Weather Bureau.         |  |  |           |
| Seivern.....                              | Aiken.....        | 482             | 5                              | 68.0  | -4.5                       | 97       | 19    | 30      | 10    | 45           | 1.98   | -0.98  | 0.55                       | 0        | 7      | 14              | 3               | 14              | sw.                | Geo. C. Gunter.         |  |  |           |
| Smiths Mills.....                         | Williamsburg..... | 62              | 11                             | 70.0  | -2.0                       | 92       | 19    | 39      | 10    | 26           | 1.95   | -2.45  | 0.80                       | 0        | 6      | 22              | 1               | 9               | e.                 | H. van Keuren.          |  |  |           |
| Society Hill.....                         | Darlington.....   | 192             | 15                             | 68.4  | -2.2                       | 94       | *18   | 36      | 10    | 36           | 3.03   | -0.07  | 0.62                       | 0        | 8      | 22              | 3               | 6               | sw.                | J. J. Lucas.            |  |  |           |
| Spartanburg.....                          | Spartanburg.....  | 875             | 15                             | 68.4  | -2.2                       | 94       | *18   | 36      | 10    | 36           | 3.03   | -0.07  | 0.62                       | 0        | 8      | 22              | 3               | 6               | sw.                | F. P. Robinson.         |  |  |           |
| Stateburg.....                            | Sumter.....       | 500             | 29                             | 70.1  | -1.5                       | 95       | 19    | 41      | 10    | 32           | 2.75   | -0.65  | 0.65                       | 0        | 11     | 14              | 2               | 15              | sw.                | W. W. Anderson, M. D.   |  |  |           |
| Summerville.....                          | Dorchester.....   | 75              | 9                              | 71.4  | 0.0                        | 98       | 19    | 40      | 10    | 39           | 3.37   | -0.85  | 0.81                       | 0        | 11     | 13              | 6               | 12              | sw.                | Miss E. H. Gadsden.     |  |  |           |
| Sumter.....                               | Sumter.....       | 169             | 5                              | 70.9  | -0.4                       | 97       | 19    | 36      | 10    | 39           | 3.81   | 0.95   | 0                          | 9        | 14     | 17              | 0               | sc.             | H. A. Moses.       |                         |  |  |           |
| Trenton.....                              | Edgefield.....    | 620             | 13                             | 69.3  | -4.6                       | 93       | *19   | 40      | 10    | 32           | 3.24   | +0.33  | 1.05                       | 0        | 9      | 16              | 11              | 4               | sw.                | C. A. Long.             |  |  |           |
| Trial.....                                | Berkeley.....     | 85              | 20                             | 70.0  | -0.4                       | 96       | 19    | 39      | 10    | 38           | 1.72   | -2.89  | 1.07                       | 0        | 8      | 13              | 9               | 9               | nw.                | Etsell Gaillard.        |  |  |           |
| Walhalla.....                             | Oconee.....       | 1061            | 15                             | 68.6  | +1.3                       | 95       | 18    | 37      | 10    | 36           | 2.82   | -0.12  | 1.26                       | 0        | 4      | 13              | 16              | 2               | w.                 | F. B. Douthit.          |  |  |           |
| Walterboro.....                           | Colleton.....     | 69              | 3                              | 69.6  | -0.3                       | 93       | *19   | 43      | 10    | 36           | 5.07   | 1.31   | 0                          | 12       | 14     | 8               | 8               | w.              | J. A. Westerberg.  |                         |  |  |           |
| Wilmington, N. C.....                     | New Hanover.....  | 52              | 37                             | 69.4  | -0.3                       | 93       | 19    | 42      | 10    | 31           | 3.60   | +0.56  | 1.16                       | 0        | 8      | 12              | 18              | 1               | sw.                | Weather Bureau.         |  |  |           |
| Winnsboro.....                            | Fairfield.....    | 545             | 17                             | 69.4  | -2.1                       | 93       | 31    | 40      | 10    | 30           | 1.85   | -1.45  | 0.85                       | 0        | 5      | 22              | 9               | 0               | sw.                | John W. Seigler.        |  |  |           |
| Winthrop College.....                     | York.....         | 690             | 7                              | 69.6  | -1.8                       | 93       | *18   | 35      | 10    | 33           | 1.93   | -1.51  | 0.94                       | 0        | 6      | 18              | 8               | 5               | sw.                | E. R. Rivers.           |  |  |           |
| Yemassee.....                             | Beaufort.....     | 23              | 11                             | 70.0  | -4.6                       | 95       | 19    | 40      | 10    | 33           | 4.63   | +2.13  | 0.96                       | 0        | 11     | 19              | 2               | 10              | sw.                | J. G. Hutson.           |  |  |           |
| Yorkville.....                            | York.....         | 680             | 18                             | 70.4  | -0.9                       | 96       | 18    | 38      | 10    | 38           | 1.82   | -1.70  | 0.58                       | 0        | 6      | 11              | 9               | 11              | sw.                | J. R. Schorb.           |  |  |           |
| MEANS—highest, lowest and dates, etc..... |                   |                 |                                | 70.7  | -1.5                       | 99       | 19    | 30      | 10    | 45           | 3.00   | -0.43  | 2.28                       | 0        | 7      | 17              | 6               | 8               | sw.                |                         |  |  |           |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
 § Exposed not standard. \* On other dates also a indicates 1 day missing. b, 2 days, etc.



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

MAY, 1906.

DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MAY, 1906.

At those stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR MAY, 1906



## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1906.

| STATIONS.         | Day of Month. |     |      |      |     |      |      |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | Total. |      |
|-------------------|---------------|-----|------|------|-----|------|------|------|-----|----|----|----|----|------|-----|-----|----|----|----|-----|-----|-----|-----|------|------|-----|------|------|------|-----|-----|--------|------|
|                   | 1             | 2   | 3    | 4    | 5   | 6    | 7    | 8    | 9   | 10 | 11 | 12 | 13 | 14   | 15  | 16  | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24   | 25   | 26  | 27   | 28   | 29   | 30  | 31  |        |      |
| Aiken             | .20           |     | .20  |      |     | .50  |      |      |     |    |    |    |    | 1.00 |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.30   |      |
| Allendale         |               |     |      |      |     |      | .30  | .50  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.32   |      |
| Anderson          |               | .02 | .92  | .03  |     | 1.20 | .59  |      |     |    |    |    |    |      |     |     |    |    |    |     | .80 |     | .10 |      |      | .22 | .10  | .20  | .10  |     |     | 4.93   |      |
| Augusta, Ga.      | .07           |     | .19  | .01  |     | .63  | .67  |      |     |    |    |    |    |      |     |     |    |    |    | .11 |     |     |     |      |      | .14 | 2.28 | .02  | T.   |     |     | 4.01   |      |
| Barksdale         |               |     | .35  | T.   |     |      |      | .90  | .52 |    |    |    |    |      |     |     |    |    |    |     | T.  |     |     |      |      |     | 1.10 | 2.05 |      |     |     | 4.40   |      |
| Batesburg         | .06           |     |      | .04  |     |      | 1.05 |      |     |    |    |    |    |      |     |     |    |    |    |     |     | T.  |     |      |      |     | .27  | .85  | .37  | T.  |     | 2.61   |      |
| Bennettsville     | .10           |     | .29  |      |     |      | .82  |      |     |    |    |    |    |      |     |     |    |    |    |     | .01 | .06 |     | 1.78 | 1.01 | .64 | .14  | .04  | .28  |     |     | 5.11   |      |
| Blackville        |               | .06 |      | .09  | T.  | .40  | 1.00 | .52  |     |    |    |    |    |      |     |     |    |    |    |     |     |     | T.  |      |      |     | 2.22 | 2.25 | .17  |     |     | 3.85   |      |
| Blairs            | .24           |     | .76  |      |     |      | .60  | .41  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | 1.70 | .64  | .82  | .18 |     | 5.45   |      |
| Bowman            | .03           |     | .15  |      |     | .20  | .88  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .66  |      |      |     |     | 2.07   |      |
| Calhoun Falls     |               |     |      | .37  | .28 |      | .91  | .44  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .42  | 2.27 | .37  | .44 |     | 1.59   |      |
| Camden            | .68           |     |      | .70  |     |      | .68  | 1.10 |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .40  | .56  | .12  | .06 |     | 5.50   |      |
| Chappells         |               | .22 |      |      |     |      | .16  | .46  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .42  | .52  | .04  |     |     | 4.30   |      |
| Charleston        | T.            | T.  | T.   | T.   |     | T.   |      |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.96   |      |
| Charlotte, N. C.  | .38           | .20 | .08  | 1.19 | .01 | .04  | .37  |      |     |    |    |    |    |      |     |     |    |    |    |     | .10 | T.  | .84 | .35  | .26  | .51 | .10  |      |      |     |     | 2.91   |      |
| Cheraw(1)         | .13           | .06 |      | .21  |     |      | .52  | .49  |     |    |    |    |    |      |     |     |    |    |    |     | .10 |     |     |      |      |     | 1.09 | .10  |      |     |     | 3.16   |      |
| Cheraw(2)         | .11           | .04 |      | .22  |     |      | .44  | .49  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .47  | .12  | .07 |     | 2.32   |      |
| Clark's Hill      |               | .17 | T.   | T.   |     |      | .48  | 1.71 |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .01  | .48  | .08  | .10 |     | 2.15   |      |
| Clemson College   |               | .16 |      |      |     |      | .65  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 3.53   |      |
| Columbia          | .35           |     | .25  | T.   |     | .45  | .69  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | 1.80 | .15  |      |     |     | 2.74   |      |
| Conway            |               |     |      | .05  |     | .40  | .85  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      | .01 | .24  | .08  | .18  |     |     | 2.25   |      |
| Darlington        | .20           |     | .51  |      |     |      | .95  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .16  | .08  | .77  | .10 |     | 2.41   |      |
| Dillon            | .13           | .01 | .33  |      |     |      | .83  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .05  | 1.05 | .16 |     | 2.92   |      |
| Due West          |               |     | .91  | T.   |     | .15  | .95  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .32  | T.   |      |     |     | 2.24   |      |
| Edisto            |               |     |      |      |     | .20  | .45  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .84  |      |      |     |     | 2.85   |      |
| Effingham         | .25           |     |      |      | T.  |      |      |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .71  | .63  |      |     |     | 1.99   |      |
| Enoree            |               |     |      | .50  |     | T.   |      | .40  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      | .50  | .75 |     | 2.75   |      |
| Florence          | .05           |     |      | .05  |     |      | .24  | .60  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .28  | 1.60 | .90  |     |     | 3.68   |      |
| Gaffney           | .30           |     |      | .15  |     | .13  | .30  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .05  | .03  | .35 | .15 | 2.12   |      |
| Georgetown        |               |     | T.   | T.   |     |      | .80  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .12  | .26  | .42  |     |     | 2.36   |      |
| Greenville        |               | .11 |      | .32  |     |      | .77  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .25  | .80  | .09  | .04 |     | 2.26   |      |
| Greenwood         |               |     |      | .30  |     |      | .80  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .38  | 1.15 | .31 |     | 3.24   |      |
| Henth Springs     | .31           |     | .52  | T.   |     | .27  | .73  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .10  | .06  | .15  |     |     | 1.68   |      |
| Kingstree(1)      | .24           |     | .10  |      |     |      | .44  | .67  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .70  | .55  | .25  |     |     | 3.33   |      |
| Kingstree(2)      | .23           |     | .09  |      |     |      | 1.35 | .52  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .05  |      | .05  | .40 |     | 2.40   |      |
| Liberty           |               |     | .52  |      |     | .50  | .40  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.07   |      |
| Little Mountain   | .25           |     | .30  | T.   |     | .55  | 1.20 |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .10  | 1.02 | .82  | T.  |     | 3.36   |      |
| Newberry          |               |     | 1.15 |      |     | .72  | .50  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .02  | .29  | .12  | .03 |     | 2.79   |      |
| Pelzer            |               |     | .92  |      |     |      | .76  | .10  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .06  | 1.80 | .12 |     | 4.50   |      |
| Pinopolis         |               |     |      |      |     |      |      |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     | .04  | .30  | .62  | .18 |     | 2.92   |      |
| St. Georges       |               | .10 |      |      |     | 1.45 |      | .50  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.47   |      |
| St. Matthew       | .04           |     |      | 1.00 |     |      | .21  | .53  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .15  | .38  |     |     | 2.61   |      |
| St. Stephen       | .26           | T.  |      |      |     |      | .85  | .53  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .03  | .32  | .15 | .28 | .07    | 2.49 |
| Saluda            |               |     | .07  | T.   |     | .04  | 1.24 | .01  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .01  | .31  | .27 | T.  | 1.98   |      |
| Santac.           | .34           |     | .53  | .04  |     |      | .94  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .04  | .43  | .30 | T.  |        | 2.62 |
| Savannah, Ga.     | .32           |     | .09  | .38  | .01 | .09  | .90  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.62   |      |
| Seivern           |               | .10 |      | .55  | T.  |      | .51  |      |     |    |    |    |    |      | .07 | .01 | T. |    |    |     |     |     |     |      |      | .03 | 1.77 | .49  | 1.07 | .02 | .18 | 5.50   |      |
| Smiths Mills      |               |     | .08  |      |     |      | .80  | .60  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      | .42  | .14 | .18 |        | 1.08 |
| Society Hill      | T.            |     | .17  |      |     | .97  | .57  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      | .25  | .40 |     |        | 2.23 |
| Spartanburg       | .05           | .03 |      | .25  | T.  | .22  | .62  | .17  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .07  |      | .34 |     | 1.95   |      |
| Stateburg         | .65           |     | .05  | .44  |     | .45  | .43  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 3.03   |      |
| Summerville       | .02           | .06 | T.   | .02  | T.  | .03  | .70  | .03  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.75   |      |
| Sumter            | .95           |     | .20  |      | .32 |      | .75  | .77  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.81   |      |
| Trenton           |               | .37 | .65  |      |     | .15  | 1.05 |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .29  | .41  | .10 | .02 | 3.24   |      |
| Trial             | .22           |     | T.   | .02  |     |      | 1.07 |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .06  | .24  | .23 | .46 |        | 1.72 |
| Walhalla          |               | .12 | .36  |      |     | .97  | .20  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 2.82   |      |
| Walterboro        |               |     |      | .01  |     |      | 1.32 | .03  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      |      |     |     | 5.07   |      |
| Wilmington, N. C. | .25           | .01 | .37  | .49  | T.  |      | .57  |      |     |    |    |    |    |      | .32 |     |    |    |    |     |     |     |     |      |      |     |      | .27  | .06  | .30 |     | 3.60   |      |
| Winnsboro         | .85           |     |      | .65  |     |      | T.   |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      | .47  | .85 | .59 |        | 1.85 |
| Winthrop College  | .33           |     | .15  |      | .15 |      | .94  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      | .25  | .05 |     | .05    | 1.93 |
| Yemassee          |               |     | T.   | T.   |     |      | .79  | .55  |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      |      | .08  | .28 |     |        | 4.63 |
| Yorkville         | T.            |     | .22  | .20  |     | .24  | .58  |      |     |    |    |    |    |      |     |     |    |    |    |     |     |     |     |      |      |     |      | .10  | .02  | .07 | .44 |        | 1.82 |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JUNE, 1906.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

JULY 25, 1906.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JUNE 1904

(Arrows fly with the wind)





U. S. DEPARTMENT OF AGRICULTURE.

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

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No. 6.

## GENERAL SUMMARY.

There were two periods of abnormal heat during the current June, when maximum temperatures of 100° or above, were recorded at one or more stations. The first period was of comparatively short duration and included the 7th, 8th, and 9th; the second period began on the 21st and lasted to the end of the month. No unusually low temperatures occurred.

With the exception of slight deficiencies at Anderson, Clemson College, and Greenville in the extreme western part of the State, and at Charleston on the coast, the precipitation was in excess of the normal at all stations. At a number of stations from two to nearly three times the normal amount was recorded. The heaviest rainfall occurred over the eastern part of the State, and from the 12th to the 18th, inclusive. Moderately heavy and quite general rains occurred from the 2nd to the 6th, inclusive, and from the 24th to the 26th, inclusive. Widely scattered and generally light showers occurred on the 8th, 9th, 10th, 11th, 20th, 27th, 28th, 29th, and 30th. The average rainfall for the State was the largest of record for the last thirteen years, as is shown in the table under "June Weather."

There was an unusually large number of thunderstorms, and many of them were accompanied by hail and local high winds. There was less than the normal percentage of sunshine.

## Temperature.

The mean temperature for June was 78.4°, which is 0.5° above normal. The highest local mean was 82.2° at Saint George, the lowest was 72.4° at Greenville. The monthly extremes of temperature were a maximum of 102° at Blackville on the 28th and 29th, and at Florence on the 8th, and a minimum of 52° at Greenville on the 13th, making the State range 50°. The greatest local monthly range was 45° at Heath Spring, the least was 26° at Charleston. The mean of the daily maximum temperatures was 88.5°, and of the daily minimum temperatures was 68.2°, making the average daily range 20.3°.

## Precipitation.

The average precipitation was 8.88 inches, which is 4.02 inches above normal. The greatest local monthly amount was 16.13 inches at Smiths Mill, the least was 4.28 inches at Greenville. The greatest 24-hour fall was 7.15 inches at Allendale on the 13th. The average number of days with rain was 12, ranging from 6 at Calhoun Falls to 17 at Summerville.

**EXCESSIVE PRECIPITATION.**—At Aiken on the 11th, 3.90 inches in 24 hours; at Allendale on the 13th, 7.15 inches in 8 hours; at Beaufort on the 16th, 3.00 inches in 24 hours; at Bennettsville on the 15th, 2.48 inches in 24 hours; at Black-

ville on the 13th, 4.93 inches in 9 hours; at Calhoun Falls on the 13th, 3.82 inches in 21 hours; at Chappels on the 13th, 2.50 inches in 24 hours; at Cheraw on the 16th, 3.85 inches in 24 hours, and on the 18th, 2.73 inches in 24 hours; at Clarks Hill on the 12th-13th, 4.21 inches in 24 hours; at Columbia on the 5th, 1.06 inches in 20 minutes, and on the 15th, 1.23 inches in 55 minutes; at Darlington on the 13th, 2.95 inches in 24 hours; at Dillon on the 13th, 2.77 inches in 24 hours; at Edisto on the 16th, 2.94 inches in 24 hours; at Effingham on the 13th-14th, 3.50 inches in 24 hours; at Florence on the 16th, 2.80 inches in 24 hours; at Georgetown on the 16th, 3.50 inches in 24 hours; At Pinopolis on the 14th, 5.07 inches in 24 hours; at Saint Matthews on the 16th, 4.50 inches in 7 hours, and on the 25th-26th, 4.70 inches in 13 hours; at Saint Stephens on the 15th-16th, 5.29 inches in 19 hours; at Seivern on the 13th, 3.16 inches in 24 hours; at Smiths Mill on the 14th, 3.90 inches in 24 hours; at Society Hill on the 14th-15th, 3.93 inches in 24 hours; at Sumter on the 15th, 4.30 inches in 24 hours; at Walterboro on the 13th, 3.33 inches in 24 hours, and on the 26th, 3.25 inches in 24 hours; at Rock Hill on the 9th, 3.00 inches in 1 hour and 45 minutes; at Yorkville on the 13th, 3.30 inches in 24 hours, and on the 15th, 3.30 inches in 2 hours and 30 minutes, and on the 16th, 2.60 inches in 24 hours.

**HAIL.**—At Newberry on the 29th; at Summerville on the 28th; at Winthrop College on the 8th.

## Wind.

The prevailing direction of the wind was from the southwest at 25 stations, from the west at 11 stations, from the south at 9 stations, from the east and the northwest at 2 stations each, and from the north and the northeast at 1 station each.

**HIGH WINDS.**—At Blackville on the 3rd; at Bowman on the 12th; at Charleston on the 12th; at Greenville on the 24th; at Liberty on the 6th, 7th, 13th, 26th; at Spartanburg on the 9th; at Stateburg on the 19th; at Trial on the 12th, 24th; at Winthrop College on the 9th, 24th.

## Sunshine and Cloudiness.

The average number of clear days was 13, of partly cloudy days was 8, and of cloudy days was 9.

## MISCELLANEOUS PHENOMENA.

**LUNAR HALOS.**—At Charleston on the 3rd, 28th; at Winthrop College on the 1st, 6th.

**DENSE FOGS.**—At Liberty on the 2nd, 17th; at Winthrop College on the 15th.

**THUNDERSTORMS.**—Two hundred and one thunderstorms were reported from twenty-two stations on twenty-nine dates, as follows: At Batesburg on the 2nd, 3rd, 24th, 25th; at Beaufort on the 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 12th, 13th, 14th, 15th, 16th, 19th, 22nd, 23rd, 25th, 26th, 27th, 28th, 29th; at Bennettsville on the 8th, 9th, 15th, 17th, 18th, 24th; at Blackville on the 3rd, 6th, 8th, 13th, 14th, 15th, 16th, 26th; at Bowman on the 2nd, 3rd, 4th, 5th, 14th, 15th, 16th, 25th, 26th, 30th; at Charleston on the 6th, 7th, 14th, 19th, 23rd, 25th, 26th, 27th, 28th, 29th, 30th; at Cheraw on the 2nd, 5th, 8th, 13th, 15th, 16th, 17th, 18th, 24th, 25th, 30th; at Columbia on the 2nd, 3rd, 4th, 5th, 8th, 9th, 13th, 14th, 15th, 19th, 24th, 25th; at Due West on the 9th, 16th, 24th; at Greenville on the 4th, 10th, 24th; at Heath Spring on the 24th, 25th; at Liberty on the 3rd, 4th, 5th, 8th, 9th, 10th, 11th, 15th, 16th, 23rd, 24th, 25th, 29th, 30th; at Newberry on the 2nd, 3rd, 9th, 12th, 13th, 14th, 15th, 16th, 24th, 25th, 29th, 30th; at Santuc on the 2nd, 3rd,



4th, 9th, 15th, 16th, 23rd, 25th, 30th; at Seivern on the 2nd, 3rd, 4th, 6th, 9th, 14th, 16th, 20th, 22nd, 25th, 26th, 29th, 30th; at Spartanburg on the 9th; at Stateburg on the 1st, 2nd, 3rd, 4th, 5th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 24th, 25th, 26th, 30th; at Summerville on the 3rd, 6th, 8th, 12th, 13th, 14th, 15th, 16th, 17th, 19th, 25th, 26th, 17th, 28th, 29th; at Trenton on the 2nd, 3rd, 4th, 8th, 13th, 14th, 15th, 16th, 19th, 21st, 23rd, 24th, 25th, 30th; at Trial on the 3rd, 13th, 14th, 24th, 25th, 28th, 30th; at Winthrop College on the 9th, 22nd, 24th, 25th, 26th; at Yorkville on the 2nd, 16th, 25th.

## OBSERVERS' REMARKS.

BATESBURG.—The weather was generally favorable during the month, except that excessive rainfall from the 12th to the 17th, inclusive, did slight damage.—E. J. Hite. BEAUFORT.—The accumulated excess in temperature since January 1st is 7°, and the accumulated excess in precipitation for the same period is 6.63 inches. Over six inches of rain fell during the week ending June 16th.—Sidney M. Benton. BENNETTSVILLE.—The month was characterized by excessive rainfall, and by high day temperatures and cool nights.—C. S. McCall. BOWMAN.—The month was notable for the large number of heavy thunderstorms that occurred, some of them accompanied by washing rains. The maximum temperatures were unusually high.—B. O. Evans. CLARKS HILL.—The rainfall on the 12th-13th, 4.21 inches in 24 hours, was the heaviest of record at this station.—Wm. S. Middleton. LIBERTY.—Plenty of rain, well distributed throughout the month, amply supplied the soil with moisture.—Jno. T. Boggs. SANTUC.—This month was unusually wet, and had more than the usual amount of cloudiness; there were frequent heavy thunderstorms, some accompanied by washing rains.—E. W. Jeter. STATEBURG.—The precipitation was excessive and all of it was due to the occurrence of thunderstorms. Some of the thunderstorms were accompanied by heavy rainfall and high winds of short duration while others bore the characteristics of tropical storms.—W. W. Anderson, M. D. SUMMERVILLE.—From the 10th to the 17th, inclusive, 6.88 inches of rain fell, mostly in the form of showers, accompanied by high winds.—Miss E. H. Gadsden. TRENTON.—The accumulated precipitation is 1.88 inches more than the average for the first six months of the year, there having been a harmful excess during this month.—C. A. Long. YORKVILLE.—There were frequent thunderstorms; some were near by and others were far off.—J. R. Schorb.

## JUNE WEATHER.

The mean daily temperature increases regularly during June, from the first to the last day, at the rate of one degree for every ten days, from a normal of 77° on the first to 80° on the last. This month does not maintain the same evenness of temperature as July and August do, as the records indicate wide fluctuations, especially in the minimum temperatures, although the mean of the daily minimum temperatures show smaller differences from year to year than the means of the daily maximum temperatures show. The ratio of the latter is in direct proportion to the percentage of sunshine which in turn varies widely from year to year.

The precipitation was copious in some parts of the State in every one of the last thirteen years, and it was scant in some sections in all but four years, indicating an irregular geographical distribution, but a study of the rainfall charts for the different years does not indicate that any particular division has been more favored than others in the average amount

of rainfall. Heavy local rains are of almost annual occurrence, as in ten of the last thirteen years falls of more than 4 inches in 24 hours have been noted. June is the month of greatest hailstorm frequency but records of hailstorms are so incomplete that a more accurate record might show a different result. The record of wind direction, reduced to percentages, shows that the prevailing direction is from the southwest, and that it blows from that direction during about one-fourth the time.

The total number of clear days in the last thirteen years was 153, of partly cloudy days was 140, of cloudy days was 97, and of rainy days was 131.

## BAROMETER AND WIND TABLE FOR JUNE, 1906.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 29.96      | 30.14    | 4     | 29.71   | 18    | 4,295           | 6.0             | 38                | sw.        | 19    |
| Charleston, S. C. .... | 29.97      | 30.17    | 4     | 29.70   | 18    | 7,551           | 10.5            | 47                | e.         | 12    |
| Charlotte, N. C. ....  | 29.97      | 30.19    | 4     | 29.71   | 18    | 4,536           | 6.3             | 38                | w.         | 25    |
| Columbia, S. C. ....   | 29.95      | 30.15    | 3     | 29.70   | 18    | 4,157           | 6.3             | 28                | w.         | 5     |
| Savannah, Ga. ....     | 29.98      | 30.16    | 5     | 29.70   | 11    | 5,416           | 7.5             | 36                | sw.        | 12    |
| Wilmington, N. C. .... | 29.95      | 30.18    | 4     | 29.69   | 18    | 5,208           | 7.2             | 25                | w.         | 3     |
| Averages .....         | 29.96      | 30.19    | 4     | 29.69   | 18    | 5,244           | 7.3             | 47                | e.         | 12    |

## HAILSTORMS IN JUNE.

Through the courtesy of hailstorm insurance companies their reports of the occurrence of hailstorms in South Carolina during the current June are given herewith. The summary of such storms grouped under the dates of occurrence represents all reports received after the elimination of obvious duplications of reports and counting only one storm where two reports were credited to the same vicinity but in slightly different localities. The main object intended is to show the geographical distribution rather than the largest number of hailstorms on any one date. One company reported the character of the hailstorms and classified them as light 10, severe 21, very serious, 1. This classification was based, no doubt, on the amount of damage done to crops, as no description of the hailstones themselves was supplied. The total number of hailstorms reported was 70, and they occurred on 21 dates, as follows: On the 2nd at Kemper; on the 4th at Lykesland; on the 5th at Society Hill; on the 6th at Hampton, Fork, Kemper; on the 7th at Zion; on the 8th at Kemper, Congaree, Fork, Chester, Bishopville; on the 11th at Fork, Mullins; on the 13th at Gallivants Ferry, Gideon, Exile, Justice, Mullins; on the 14th at Gallivants Ferry, Loris, Finklea; on the 15th at Lancaster, Anderson, Darlington, Society Hill, Ousley's; on the 16th at Timmons ville, St. Charles; on the 17th at Lancaster, Middendorf; on the 18th at Lancaster, Dillon, Blenheim; on the 20th at Mullins, Mont Clare, Darlington, Timmons ville, Lamar, McBee, Gideon, Exile, Latta; on the 21st at Lancaster; on the 22nd at Mullins; on the 23rd at McConnellsville, Kemper, Laurens, Manning; on the 24th at Mont Clare, Timmons ville, Darlington, Dovesville, Workman, Hymen, Cades, Tatum, Finklea, Bennettsville, Palmetto; on the 25th at Lancaster, Kershaw, Clio, Chester, McBee, Hartsville, Lykesland, Timmons ville; on the 28th at Lake City; on the 30th at Wysacky.



## CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1906.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—inches. |        |                            |                       |                             |                       |   |                                       |                                      |                                      | Observers.              |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|--------|----------------------------|-----------------------|-----------------------------|-----------------------|---|---------------------------------------|--------------------------------------|--------------------------------------|-------------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily value. | Total. | Departure from the normal. | Greatest at 24 hours. | Total, showing all showers. | Number of rainy days. | Number of days with less than .01 inch. | Number of days with .01 to .099 inch. | Number of days with .1 to .499 inch. | Number of days with .5 to .999 inch. |                         |
|                                       |              |                 |                         |                                    |                            |          |       |         |       |                       |        |                            |                       |                             |                       |   |                                       |                                      |                                      |                         |
| Aiken                                 | Aiken        | 565             | 22                      | 79.0                               | +0.2                       | 98       | 21    | 59      | 10    | 29                    | 6.70   | +2.44                      | 3.90                  | 0                           | 4                     | 16                                      | 0                                     | 0                                    | 0                                    | C. F. McGahan, M. D.    |
| Blendale                              | Barnwell     | 186             | 18                      | 81.8                               | +1.1                       | 98       | *18   | 62      | 11    | 26                    | 15.03  | +10.48                     | 2.15                  | 0                           | 9                     | 20                                      | 0                                     | 10                                   | 0                                    | C. A. Glover.           |
| Anderson                              | Anderson     | 764             | 5                       | 76.3                               | +0.4                       | 97       | 8     | 57      | 13    | 26                    | 4.53   | 0.00                       | 0.87                  | 0                           | 10                    | 17                                      | 2                                     | 11                                   | 0                                    | H. H. Russell.          |
| Augusta, Ga.                          | Richmond     | 144             | 35                      | 79.7                               | +0.9                       | 98       | 8     | 65      | 13    | 27                    | 7.96   | +1.36                      | 4.17                  | 0                           | 12                    | 9                                       | 12                                    | 9                                    | 0                                    | Weather Bureau.         |
| Arkadelphia                           | Laurens      | 680             | 5                       |                                    |                            |          |       |         |       |                       |        |                            |                       |                             |                       |   |                                       |                                      |                                      | J. T. Garrett.          |
| Atenasburg                            | Lexington    | 656             | 18                      | 77.8                               | +1.0                       | 99       | 20    | 59      | 13    | 29                    | 8.76   | +5.10                      | 2.16                  | 0                           | 9                     | 13                                      | 5                                     | 12                                   | 0                                    | E. J. Hobb.             |
| Beaufort                              | Beaufort     | 20              | 20                      | 80.1                               | +0.3                       | 95       | 27    | 66      | *11   | 20                    | 7.70   | +2.62                      | 3.00                  | 0                           | 13                    | 12                                      | 14                                    | 5                                    | 0                                    | S. M. Borton.           |
| Camden                                | Marlboro     | 151             | 5                       | 78.6                               |                            | 98       | 20    | 60      | 13    | 31                    | 8.82   | 0.00                       | 2.58                  | 0                           | 13                    | 15                                      | 8                                     | 7                                    | 0                                    | C. S. McGill.           |
| Cammettsville                         | Barnwell     | 296             | 18                      | 81.7                               | +1.6                       | 102      | *28   | 65      | *11   | 31                    | 11.38  | +6.13                      | 4.93                  | 0                           | 11                    | 23                                      | 2                                     | 5                                    | 0                                    | G. D. C. Lange.         |
| Chickadee                             | Fairfield    | 293             | 1                       |                                    |                            |          |       |         |       |                       | 5.75   |                            | 1.68                  | 0                           | 9                     | 12                                      | 12                                    | 6                                    | 0                                    | T. S. McMeekin.         |
| Columbia                              | Orangeburg   | 160             | 5                       | 79.6                               |                            | 99       | 23    | 64      | *11   | 32                    | 8.62   |                            | 1.85                  | 0                           | 13                    | 16                                      | 10                                    | 4                                    | 0                                    | B. O. Evans.            |
| Cowman                                | Abbeville    | 568             | 13                      |                                    |                            |          |       |         |       |                       | 7.19   | +3.68                      | 3.82                  | 0                           | 6                     | 21                                      | 0                                     | 9                                    | 0                                    | P. J. Fletcher.         |
| Dalhousie Falls                       | Kershaw      | 222             | 40                      |                                    |                            |          |       |         |       |                       | 8.13   | +4.04                      | 1.28                  | 0                           | 11                    | 17                                      | 5                                     | 8                                    | 0                                    | W. C. Brown.            |
| Dundee                                | Newberry     | 402             | 1                       |                                    |                            |          |       |         |       |                       | 7.07   |                            | 0.76                  | 0                           | 8                     | 15                                      | 5                                     | 10                                   | 0                                    | W. F. Glenn.            |
| Happells                              | Charleston   | 48              | 37                      | 80.4                               | +1.3                       | 94       | 27    | 68      | 10    | 18                    | 1.75   | +0.24                      | 1.11                  | 0                           | 15                    | 7                                       | 11                                    | 12                                   | 0                                    | Weather Bureau.         |
| Harleston                             | Mecklenburg  | 808             | 28                      | 76.0                               | +0.2                       | 98       | 30    | 57      | 13    | 28                    | 4.83   | +5.74                      | 3.85                  | 0                           | 15                    | 12                                      | 7                                     | 11                                   | 0                                    | Weather Bureau.         |
| Harlotte, N. C.                       | Chesterfield | 141             | 18                      | 76.9                               | +1.5                       | 95       | 7     | 59      | 13    | 28                    | 10.83  | +5.74                      | 3.85                  | 0                           | 15                    | 10                                      | 12                                    | 8                                    | 0                                    | W. R. Godfrey.          |
| Heraw (1)                             | Edgefield    | 144             | 13                      |                                    |                            |          |       |         |       |                       | 9.99   | +3.98                      | 3.87                  | 0                           | 15                    | 10                                      | 12                                    | 8                                    | 0                                    | Jno. H. Powe.           |
| Heraw (2)                             | Edgefield    | 500             | 4                       | 78.0                               |                            | 99       | 8     | 60      | *1    | 33                    | 7.04   |                            | 4.21                  | 0                           | 7                     |   |                                       |                                      |                                      | Wm. S. Middleton.       |
| Hicks Hill                            | Oconee       | 850             | 15                      | 76.8                               | +0.3                       | 96       | 30    | 58      | 13    | 28                    | 5.67   | +0.09                      | 2.18                  | 0                           | 12                    | 16                                      | 10                                    | 1                                    | 0                                    | Jno. N. Hook.           |
| Hemlock College                       | Richland     | 351             | 19                      | 78.4                               | +0.6                       | 96       | 23    | 60      | 13    | 27                    | 8.66   | +1.50                      | 2.08                  | 0                           | 14                    | 6                                       | 13                                    | 11                                   | 0                                    | Central Office.         |
| Holmes                                | Horry        | 25              | 14                      | 80.7                               |                            | 98       | 7     | 60      | 1     | 31                    | 8.15   | +3.34                      | 2.10                  | 0                           | 12                    | 17                                      | 0                                     | 13                                   | 0                                    | Miss M. G. Quattlebaum. |
| Holmes                                | Darlington   | 175             | 11                      | 77.6                               |                            | 97       | 23    | 61      | 13    | 35                    | 10.53  | +4.29                      | 2.95                  | 0                           | 16                    | 10                                      | 17                                    | 3                                    | 0                                    | Miss F. G. McIver.      |
| Holmes                                | Marion       | 100             | 2                       | 78.4                               |                            | 100      | 8     | 62      | *1    | 34                    | 8.20   |                            | 1.70                  | 0                           | 9                     | 11                                      | 7                                     | 8                                    | 0                                    | A. E. Rowell.           |
| Holmes                                | Abbeville    | 730             | 5                       | 76.1                               |                            | 95       | 30    | 58      | 13    | 25                    | 7.32   |                            | 2.77                  | 0                           | 13                    |   |                                       |                                      |                                      | Rev. O. Y. Bonner.      |
| Holmes                                | Baunburg     | 127             | 13                      |                                    |                            |          |       |         |       |                       | 13.40  | +7.99                      | 2.94                  | 0                           | 8                     | 19                                      | 3                                     | 8                                    | 0                                    | Mrs. M. Thompson.       |
| Holmes                                | Florence     | 106             | 14                      |                                    |                            |          |       |         |       |                       | 14.10  | +9.29                      | 3.50                  | 0                           | 11                    | 19                                      | 0                                     | 11                                   | 0                                    | H. B. McCall.           |
| Holmes                                | Spartanburg  | 987             | 1                       |                                    |                            |          |       |         |       |                       | 8.10   |                            | 2.00                  | 0                           | 9                     |   |                                       |                                      |                                      | J. W. King.             |
| Holmes                                | Florence     | 136             | 18                      | 79.0                               | +0.0                       | 102      | 8     | 63      | 1     | 35                    | 10.84  | +5.29                      | 2.80                  | 0                           | 12                    | 13                                      | 1                                     | 16                                   | 0                                    | H. K. Gilbert.          |
| Holmes                                | Cherokee     | 893             | 10                      | 76.8                               |                            | 100      | *29   | 56      | 13    | 34                    | 6.01   | +2.33                      | 2.10                  | 0                           | 12                    | 20                                      | 2                                     | 8                                    | 0                                    | B. F. Camp.             |
| Holmes                                | Georgetown   | 12              | 13                      | 78.4                               | +0.5                       | 94       | 24    | 65      | 11    | 19                    | 11.19  | +5.07                      | 3.50                  | 0                           | 9                     | 16                                      | 5                                     | 9                                    | 0                                    | Reid Whitford.          |
| Holmes                                | Greenville   | 989             | 14                      | 72.4                               | +1.7                       | 93       | 30    | 52      | 13    | 31                    | 4.28   | +1.06                      | 1.85                  | 0                           | 13                    | 19                                      | 3                                     | 8                                    | 0                                    | Mrs. S. A. Crittenden.  |
| Holmes                                | Greenville   | 671             | 18                      | 77.6                               | +1.0                       | 99       | 30    | 59      | 13    | 26                    | 5.06   | +0.93                      | 2.20                  | 0                           | 10                    | 18                                      | 0                                     | 12                                   | 0                                    | M. M. Calhoun.          |
| Holmes                                | Greenville   | 568             | 5                       | 78.8                               |                            | 99       | *9    | 54      | 13    | 32                    | 8.80   |                            | 1.10                  | 0                           | 16                    | 12                                      | 8                                     | 10                                   | 0                                    | J. A. Weaver.           |
| Holmes                                | Williamsburg | 54              | 18                      | 80.6                               | +2.0                       | 95       | 8     | 65      | 9     | 25                    | 9.01   | +3.97                      | 2.00                  | 0                           | 11                    | 17                                      | 7                                     | 6                                    | 0                                    | J. A. Scott.            |
| Holmes                                | Pickens      | 900             | 12                      | 76.8                               | +0.4                       | 98       | 30    | 57      | 13    | 33                    | 5.49   | +0.50                      | 1.30                  | 0                           | 15                    | 12                                      | 15                                    | 3                                    | 0                                    | A. O. Matthews.         |
| Holmes                                | Newberry     | 630             | 13                      | 78.0                               | +0.8                       | 98       | *8    | 59      | 12    | 30                    | 6.13   | +1.66                      | 2.00                  | 0                           | 9                     | 9                                       | 14                                    | 7                                    | 0                                    | Jno. T. Boggs.          |
| Holmes                                | Newberry     | 502             | 2                       | 79.2                               | +1.8                       | 101      | 30    | 59      | *13   | 30                    | 6.43   | +2.29                      | 2.35                  | 0                           | 11                    | 5                                       | 13                                    | 12                                   | 0                                    | John M. Sease, M. D.    |
| Holmes                                | Anderson     | 873             | 1                       |                                    |                            |          |       |         |       |                       | 5.50   |                            | 2.00                  | 0                           | 10                    | 16                                      | 1                                     | 13                                   | 0                                    | W. G. Peterson.         |
| Holmes                                | Berkeley     | 54              | 13                      | 77.2                               | +2.2                       | 89       | *8    | 61      | 1     | 33                    | 13.30  | +5.47                      | 5.07                  | 0                           | 11                    | 9                                       | 15                                    | 6                                    | 0                                    | John M. Ward.           |
| Holmes                                | Pinopolis    | 109             | 18                      | 82.2                               | +4.0                       | 96       | *23   | 67      | 11    | 20                    | 9.39   | +3.82                      | 2.20                  | 0                           | 9                     | 19                                      | 0                                     | 11                                   | 0                                    | E. P. Ravenel.          |
| Holmes                                | St. Georges  | 269             | 18                      | 77.4                               | +1.6                       | 93       | 8     | 60      | 9     | 29                    | 14.86  | +0.56                      | 4.70                  | 0                           | 13                    | 18                                      | 0                                     | 12                                   | 0                                    | G. T. Lewis.            |
| Holmes                                | Orangeburg   | 73              | 14                      |                                    |                            |          |       |         |       |                       | 11.97  | +5.66                      | 5.49                  | 0                           | 13                    |   |                                       |                                      |                                      | J. S. Warramaker.       |
| Holmes                                | Berkeley     | 536             | 5                       | 78.5                               |                            | 98       | 8     | 61      | 13    | 31                    | 8.74   |                            | 1.49                  | 0                           | 12                    | 18                                      | 0                                     | 8                                    | 0                                    | C. T. Shuler.           |
| Holmes                                | Saluda       | 512             | 13                      | 77.0                               | +0.3                       | 100      | 30    | 57      | 13    | 32                    | 6.21   | +2.33                      | 2.04                  | 0                           | 12                    | 7                                       | 15                                    | 8                                    | 0                                    | Alvin Etheridge.        |
| Holmes                                | Union        | 71              | 37                      | 79.9                               | +0.6                       | 95       | 22    | 65      | 10    | 23                    | 8.35   | +1.74                      | 2.79                  | 0                           | 16                    | 7                                       | 18                                    | 5                                    | 0                                    | E. W. Jeter.            |
| Holmes                                | Chatham      | 482             | 5                       | 78.2                               | +0.6                       | 101      | 29    | 59      | 21    | 34                    | 16.13  | +10.21                     | 3.90                  | 0                           | 16                    | 17                                      | 0                                     | 13                                   | 0                                    | Weather Bureau.         |
| Holmes                                | Williamsburg | 62              | 11                      |                                    |                            |          |       |         |       |                       | 11.97  | +3.39                      | 3.93                  | 0                           | 13                    | 8                                       | 5                                     | 17                                   | 0                                    | Geo. C. Gunter.         |
| Holmes                                | Darlington   | 192             | 15                      | 78.5                               | +1.3                       | 95       | 7     | 60      | 12    | 25                    | 9.97   | +0.57                      | 2.00                  | 0                           | 15                    | 14                                      | 0                                     | 16                                   | 0                                    | H. van Keuren.          |
| Holmes                                | Spartanburg  | 875             | 15                      | 76.5                               | +1.5                       | 99       | 30    | 56      | 13    | 34                    | 4.91   | +9.67                      | 2.44                  | 0                           | 16                    | 9                                       | 12                                    | 8                                    | 0                                    | J. J. Lucas.            |
| Holmes                                | Sumter       | 500             | 29                      | 78.5                               | +1.4                       | 95       | *7    | 62      | 13    | 28                    | 13.91  | +9.67                      | 2.44                  | 0                           | 17                    | 9                                       | 15                                    | 6                                    | 0                                    | F. P. Robinson.         |
| Holmes                                | Sumter       | 75              | 9                       | 79.6                               | +2.9                       | 99       | 21    | 60      | 1     | 30                    | 8.96   | +1.09                      | 2.36                  | 0                           | 12                    | 10                                      | 14                                    | 6                                    | 0                                    | W. W. Anderson, M. D.   |
| Holmes                                | Dorchester   | 169             | 5                       | 79.6                               |                            | 98       | 8     | 63      | *11   | 31                    | 12.39  |                            | 4.30                  | 0                           | 17                    | 9                                       | 15                                    | 6                                    | 0                                    | Miss E. H. Gadsden.     |
| Holmes                                | Sumter       | 620             | 13                      | 78.6                               | +0.9                       | 98       | *28   | 59      | 30    | 39                    | 8.87   | +4.55                      | 1.90                  | 0                           | 9                     | 8                                       | 21                                    | 1                                    | 0                                    | H. A. Moses.            |
| Holmes                                | Edgefield    | 85              | 20                      | 78.7                               | +1.9                       | 97       | 7     | 63      | 1     | 31                    | 7.95   | +2.02                      | 2.17                  | 0                           | 13                    | 8                                       | 12                                    | 10                                   | 0                                    | C. A. Long.             |
| Holmes                                | Berkeley     | 1061            | 15                      | 75.9                               | +0.6                       | 98       | 30    | 57      | 13    | 31                    | 7.80   | +2.88                      | 2.40                  | 0                           | 11                    | 7                                       | 20                                    | 3                                    | 0                                    | Ersell Gaillard.        |
| Holmes                                | Oconee       | 69              | 3                       | 78.0                               |                            | 95       | *24   | 61      | 9     | 27                    | 12.42  |                            | 3.33                  | 0                           | 13                    | 14                                      | 8                                     | 8                                    | 0                                    | Miss Jessie Douthett.   |
| Holmes                                | Colleton     | 52              | 37                      | 78.1                               | +1.4                       | 95       | 7     | 64      | 11    | 26                    | 9.17   | +3.47                      | 3.39                  | 0                           | 13                    | 4                                       | 21                                    | 5                                    | 0                                    | J. A. Westerberg.       |
| Holmes                                | New Hanover  | 545             | 17                      | 77.3                               | +0.8                       | 97       | *8    | 60      | *12   | 28                    | 7.46   | +3.31                      | 1.45                  | 0                           | 13                    | 13                                      | 14                                    | 3                                    | 0                                    | Weather Bureau.         |
| Holmes                                | Fairfield    | 690             | 7                       | 77.0                               | +0.2                       | 98       | 30    | 56      | 13    | 30                    | 0.60   | +5.03                      | 3.00                  | 0                           | 15                    | 16                                      | 8                                     | 5                                    | 0                                    | John W. Seigler.        |
| Holmes                                | York         | 23              | 11                      | 79.1                               | +0.7                       | 99       | 28    | 60      | 1     | 27                    | 12.64  | +7.05                      | 3.52                  | 0                           | 12                    | 20                                      | 2                                     | 8                                    | 0                                    | E. R. Rivers.           |
| Holmes                                | Beaufort     | 680             | 18                      | 78.3                               | +1.2                       | 99       | 30    | 58      | *13   | 30                    | 5.42   | +0.43                      | 1.43                  | 0                           | 13                    | 4                                       | 16                                    | 10                                   | 0                                    | J. G. Hutson.           |
| Holmes                                | York         |                 |                         |                                    |                            |          |       |         |       |                       |        |                            |                       |                             |                       |   |                                       |                                      |                                      | J. R. Schorb.           |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 78.4                               | +0.5                       | 102      | *5    | 52      | 13    | 39                    | 8.88   | +4.02                      | 7.15                  | 0                           | 12                    | 13                                      | 8                                     | 9                                    | 0                                    |                         |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard.  
§ Exposed not standard. \* On other dates also. † indicates 1 day missing; ‡, 2 days, etc.

## Temperature, Rainy Days and Wind.

## Precipitation.

| Year. | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. | Year. | State Average. | Greatest Monthly. | Place.        | Least Monthly. | Place.           |
|-------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|-------|----------------|-------------------|---------------|----------------|------------------|
| 1894  | 77.0       | 88.8      | 65.9      | 105           | 41           | 8           | sw.               | 1894  | 3.91           | 9.20              | McCormick.    | 0.25           | Kingstree.       |
| 1895  | 78.2       | 89.0      | 68.2      | 105           | 50           | 8           | sw.               | 1895  | 3.04           | 7.04              | Camden.       | 0.25           | Shaw's Fork.     |
| 1896  | 77.9       | 87.6      | 68.3      | 102           | 52           | 12          | sw.               | 1896  | 5.12           | 10.45             | Georgetown.   | 1.94           | Clemson College. |
| 1897  | 79.2       | 89.9      | 68.2      | 103           | 49           | 12          | sw.               | 1897  | 5.14           | 11.75             | Pinopolis.    | 1.82           | Mt. Carmel.      |
| 1898  | 79.7       | 91.5      | 67.9      | 105           | 55           | 8           | sw.               | 1898  | 4.15           | 10.68             | Pinopolis.    | 1.58           | Central.         |
| 1899  | 79.4       | 90.5      | 68.3      | 105           | 48           | 8           | sw.               | 1899  | 3.89           | 8.55              | Blackville.   | 1.38           | Santac.          |
| 1900  | 76.2       | 85.0      | 67.3      | 97            | 52           | 14          | sw.               | 1900  | 7.94           | 15.13             | Holland.      | 4.15           | Trenton.         |
| 1901  | 76.7       | 86.0      | 67.4      | 102           | 48           | 12          | sw.               | 1901  | 6.55           | 11.92             | Pinopolis.    | 3.60           | Walhalla.        |
| 1902  | 78.5       | 89.6      | 67.4      | 105           | 52           | 9           | sw.               | 1902  | 4.48           | 8.11              | Trenton.      | 1.39           | Cheraw.          |
| 1903  | 74.2       | 81.1      | 64.2      | 96            | 42           | 14          | sw.               | 1903  | 8.09           | 18.42             | Stateburg.    | 3.95           | Due West.        |
| 1904  | 77.0       | 88.7      | 65.4      | 102           | 48           | 8           | sw.               | 1904  | 4.06           | 11.17             | Edinburg.     | 0.55           | Aiken.           |
| 1905  | 78.9       | 89.9      | 67.9      | 101           | 43           | 6           | e.                | 1905  | 1.92           | 6.30              | Walhalla.     | 0.17           | Little Mountain. |
| 1906  | 78.4       | 88.5      | 68.2      | 102           | 52           | 12          | sw.               | 1906  | 8.88           | 16.13             | Smiths Mills. | 4.28           | Greenville.      |



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

JUNE, 1906.

DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JUNE, 1908.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. 0, 100; 1, 101, etc.



# TOTAL PRECIPITATION FOR JUNE, 1906



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JUNE, 1906.

| STATIONS.         | Day of Month. |      |      |      |      |      |     |      |     |      |      |      |      |      |      |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |     | Total. |
|-------------------|---------------|------|------|------|------|------|-----|------|-----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|----|-----|-----|------|------|------|-----|-----|-----|--------|
|                   | 1             | 2    | 3    | 4    | 5    | 6    | 7   | 8    | 9   | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19  | 20  | 21  | 22  | 23 | 24  | 25  | 26   | 27   | 28   | 29  | 30  | 31  |        |
| Aiken             |               |      | .75  |      |      |      |     |      |     | .35  | 3.90 | .50  | .75  | .20  | .15  |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |     | 6.70   |
| Allendale         |               |      | 2.00 | .38  | .28  | T.   |     |      |     |      |      | T.   | .25  | 7.15 | 1.55 | .52  | 2.40 |      |     |     |     |     |    |     | .10 |      |      |      |     |     |     | 15.03  |
| Anderson          |               | .23  |      | .05  |      |      |     |      |     |      |      | .87  | .66  |      |      | .75  |      |      |     |     |     |     |    |     |     | .50  |      |      |     |     |     | 4.53   |
| Augusta, Ga.      |               | .29  | .14  | .01  | .03  |      | T.  | .01  | T.  |      |      | 2.13 | .93  | T.   | 3.74 | .44  | T.   |      | .31 |     |     |     |    | .26 | .20 | .37  |      |      |     |     |     | 7.96   |
| Barksdale         |               |      |      |      |      |      |     |      |     |      |      |      |      |      |      |      |      |      | .03 | .19 |     |     |    |     |     |      |      |      |     |     |     |        |
| Batesburg         |               |      | .51  | 1.06 |      |      |     |      |     | .15  |      | .09  | 2.16 | 1.14 | T.   | 1.50 | T.   |      |     |     | T.  |     |    |     |     | .21  | 1.94 |      |     |     |     | 8.76   |
| Beaufort          |               |      | .77  |      | .71  | .07  |     |      |     | .14  | 1.20 | .52  | .95  | .20  | .02  | 3.00 |      |      |     | .03 |     |     |    |     |     | T.   | .04  | T.   | .05 |     |     | 7.70   |
| Bennettsville     |               | .31  | .20  | .14  | .37  |      |     | .32  |     |      |      | .42  | 1.00 | .61  | 2.58 |      | 1.53 | .02  |     |     |     |     |    |     | .85 | .47  |      |      |     | T.  |     | 8.82   |
| Blackville        |               |      | 1.67 |      | .08  | T.   | .10 |      |     |      |      | .21  | 4.93 | .26  | .45  | 2.20 |      |      |     |     |     |     |    | .03 |     |      | 1.43 |      |     |     |     | 11.38  |
| Blairs            |               |      | .32  | .58  |      |      |     |      |     |      |      | T.   | 1.68 | .95  | .08  | 1.06 |      | .66  |     |     |     | .02 |    |     |     | .02  | .40  |      |     |     |     | 5.75   |
| Bowman            |               | .20  | 1.42 | .22  | .24  |      |     |      |     | .04  |      | .48  | .55  | 1.77 | 1.54 | .18  |      |      |     |     |     |     |    |     |     | .08  | 1.85 |      |     | .05 |     | 8.62   |
| Calhoun Falls     |               |      | .81  |      |      |      |     |      |     |      |      |      | 3.82 |      | .84  | .92  | .78  |      |     |     |     |     |    |     |     | .52  |      |      |     |     |     | 7.69   |
| Camden            |               |      | .08  | 1.28 | .70  |      |     |      |     |      |      | .54  | .66  | .42  | .32  | .10  |      | .12  |     |     |     |     |    |     |     | .48  | .43  |      |     |     |     | 8.13   |
| Chappells         |               |      | .42  | T.   |      |      | .66 | T.   |     | .14  | .42  | T.   | 2.50 | .50  | T.   | 2.42 | T.   |      | .25 | T.  |     |     |    |     | .40 | T.   | T.   |      |     |     |     | 7.05   |
| Charleston        |               |      |      |      |      |      |     |      |     | .17  | .63  |      | .26  | .50  | .43  | .14  | .70  | .38  |     |     |     |     |    | .33 | .21 | .04  | T.   | T.   | .10 |     |     | 4.75   |
| Charlotte, N. C.  |               | .07  | .17  | T.   | .56  | T.   |     | T.   | .04 | .32  |      | .17  | 1.10 | .27  | .02  | .50  |      | .08  |     |     |     | .14 |    |     | .23 | 1.14 | .02  | T.   |     |     |     | 4.83   |
| Cheraw(1)         |               |      | .16  | .03  | .32  | .06  |     | .12  | .72 |      |      | .14  | 1.41 | .54  | .13  | 3.85 |      | 2.73 |     |     |     |     |    |     |     | .07  | .63  | .02  |     |     |     | 10.83  |
| Cheraw(2)         |               |      | .20  | .02  | .24  | .02  | T.  | .08  | .55 |      |      | .06  | 1.43 | .30  | .12  | 3.87 | T.   | 2.42 |     |     | T.  |     |    |     | .08 | .58  | .02  |      |     |     |     | 9.99   |
| Clark's Hill      |               | .29  | T.   | T.   |      |      |     | .21  |     |      |      | 1.89 | 2.32 | T.   | 1.37 | .84  |      |      |     | .12 |     |     |    |     |     | T.   |      |      |     |     |     | 7.04   |
| Clemson College   |               | .14  | 1.12 |      | .18  |      |     | .71  |     | .09  |      | 2.18 | .13  |      | .06  | .25  | .42  | .18  |     |     |     |     |    |     | T.  |      |      |      |     |     |     | 5.67   |
| Columbia          |               | .20  | .25  | .80  | 1.45 |      |     | T.   | T.  |      |      | 1.01 | 1.15 | .86  | 1.63 | .25  |      |      |     |     |     |     |    |     | .21 |      |      |      |     |     |     | 8.66   |
| Conway            |               |      | 1.06 | .10  |      |      |     |      |     |      |      |      | .91  | 2.95 | .67  | 2.37 | .37  |      |     | .12 | .01 |     |    |     |     | .22  | .70  | .01  |     |     |     |        |
| Darlington        |               | .03  | .04  | .95  | .09  | .09  |     | T.   | T.  | T.   | .20  | .45  | .45  | 2.10 | 1.04 | 1.32 | .07  | T.   |     |     |     |     |    |     |     | .52  | .63  | T.   | .21 |     |     | 8.15   |
| Dillon            |               |      | .17  | T.   | .32  | .01  |     | T.   | T.  | .06  |      | 1.29 | 2.77 | .56  | 1.05 | .23  |      | .15  |     |     |     |     |    |     | .11 | .84  | .73  |      | .05 | .18 |     | 10.53  |
| Due West          |               |      |      | .83  |      |      |     | 1.70 |     |      |      | .83  | 1.36 | .22  |      | 1.16 | .05  |      |     |     |     |     |    |     | .77 | .55  | .04  |      |     |     |     | 8.20   |
| Edisto            |               |      | 1.90 | .33  | 2.17 | 1.53 |     |      |     |      |      |      | 1.45 |      | 1.49 | 2.94 |      |      |     |     |     |     |    |     |     |      |      |      |     |     |     | 7.32   |
| Ellingham         |               |      | T.   | .75  | .65  | .90  |     | .95  | T.  |      |      | .75  | 2.00 | 3.50 | .65  | 2.50 |      |      |     |     |     |     |    |     |     | .95  | .50  |      |     |     |     | 13.40  |
| Enoree            |               |      | .80  |      | .40  |      |     |      |     |      |      |      | 2.00 | .90  |      |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |     | 14.10  |
| Florence          |               |      | .26  | .03  |      | .25  |     | .25  |     | .05  |      | .60  | 2.10 | 2.20 | .60  | 2.80 |      | 1.30 |     | .20 |     |     |    |     | .70 | 2.10 | .60  |      |     |     |     | 8.10   |
| Gaffney           |               | .05  |      | 1.10 | .05  | .01  |     |      |     |      | 2.10 |      | 1.62 | .78  | .03  | .35  |      |      |     |     |     |     |    |     |     | 1.40 | .30  |      |     |     |     | 10.84  |
| Georgetown        |               |      | T.   | T.   | T.   |      |     |      |     |      | 1.20 | .52  | 1.05 | 2.02 | 1.05 | 3.50 |      | T.   |     |     |     |     |    |     |     | .10  | .32  | .40  |     |     |     | 6.91   |
| Greenville        |               | .23  | T.   | .29  | T.   |      |     |      |     |      | .18  | .13  |      | 1.85 | .25  | .13  | T.   | .78  | .16 | .09 |     |     |    |     | .80 | .40  | .65  |      | T.  |     |     | 11.19  |
| Greenwood         |               |      | .55  | .05  | .07  |      |     |      |     |      |      |      | 2.20 |      | .25  | .93  | .30  |      |     |     |     |     |    |     | .05 | .10  | .04  |      |     | T.  |     | 4.28   |
| Heath Springs     |               | .14  | .98  | .11  | .56  |      |     | .02  | .81 | T.   |      | .22  | .87  | .16  | .85  | .56  |      |      |     |     |     |     |    |     |     | .20  | .19  |      |     |     |     | 5.06   |
| Kingstree(1)      |               |      |      | .65  |      |      |     |      |     |      | .05  | .67  | 1.90 | 1.27 | 1.00 | 2.00 | .20  |      |     |     |     |     |    | .12 | .90 | 1.10 | .07  | .33  | T.  |     |     | 8.80   |
| Kingstree(2)      |               |      |      |      |      |      |     |      |     |      |      |      | .63  | 2.17 | 1.45 | 1.14 | 2.48 | .20  |     |     |     |     |    |     |     |      |      |      |     |     |     | 9.01   |
| Liberty           |               |      | .20  | .40  | .50  | .10  |     | .02  | .16 |      |      |      | .30  | 1.30 | T.   | .10  | .25  | T.   | .40 | T.  |     |     |    |     | .25 | .41  | .35  |      |     | T.  | .75 | 8.72   |
| Little Mountain   |               | .18  | .10  |      |      |      |     | .33  |     |      |      | 2.00 | .80  | .33  | 1.03 |      |      |      |     |     |     |     |    |     |     |      | 1.06 | .10  |     |     |     | 5.49   |
| Newberry          |               | .50  | .03  |      |      |      |     | .66  |     |      |      | 2.35 | .32  | .06  | 1.16 | .05  |      |      |     |     |     |     |    |     |     | .38  | .56  |      |     |     |     | 6.13   |
| Pelzer            |               | .32  | .08  | .14  | .08  |      |     |      |     | .32  | .08  |      | 2.00 | .12  | .04  | .04  | .36  | 1.02 | .12 |     |     |     |    |     |     | .70  | .06  | .02  |     |     |     | 5.50   |
| Pinopolis         |               |      | 2.43 |      | .50  |      |     | .21  | .17 | 1.62 |      | 5.07 | .37  | .78  |      |      |      |      |     |     |     |     |    |     |     | .83  | .86  |      |     |     |     | 13.30  |
| St. Georges       |               |      | .30  |      |      | .75  |     |      |     | .10  |      | .30  | 1.20 | 1.50 | 1.05 | 1.90 |      |      |     |     |     |     |    |     |     |      | 2.20 |      |     |     |     | 9.30   |
| St. Matthew       |               |      |      | .69  | .20  | .09  |     |      |     |      |      | .60  | .85  | .15  | 2.30 | 4.50 | .08  | .05  |     | .15 |     |     |    |     |     |      | 4.70 |      |     |     |     | 14.86  |
| St. Stephen       |               |      | .27  |      |      |      |     |      |     |      |      | .35  | 2.10 | .66  | 1.51 | 3.78 | .20  |      |     |     |     |     |    |     |     |      | 1.07 | 1.20 | .27 |     |     | 11.97  |
| Seluda            |               | 1.20 |      | .02  | .24  |      |     | .08  |     |      |      | 1.01 | 1.49 | .15  | 1.42 | 1.28 | .01  |      |     |     |     |     |    |     |     |      | .09  | 1.35 |     |     |     | 8.74   |
| Santee            |               | 2.04 | .16  |      |      |      |     | .31  |     |      |      | .64  | 1.83 | .06  | .02  | .48  |      |      |     |     |     |     |    |     |     |      |      |      |     |     |     | 6.21   |
| Savannah, Ga.     |               | T.   | .98  | .68  | .05  | .03  |     |      | .15 | .44  | 1.23 | .01  | .65  | .06  | 2.74 | T.   |      | .02  |     |     |     |     |    |     | .12 | .45  | .05  |      |     |     |     | 8.35   |
| Severn            |               |      | 2.75 | T.   | .01  |      |     | .46  |     |      |      |      | 3.16 | .75  | .02  | 1.82 |      |      |     |     |     |     |    |     |     |      | .07  | .98  |     |     |     | 10.13  |
| Smiths Mills      |               | 1.25 | .30  | .20  |      |      |     | 1.00 |     |      |      | .30  | .70  | .30  | 3.90 | .40  | 2.90 | .60  | .18 |     |     |     |    |     | .60 | 1.30 | 1.45 | .75  |     |     |     | 16.13  |
| Society Hill      |               | .01  |      | .68  |      |      |     | .11  |     |      |      | .56  | 1.86 | .08  | .41  | 3.93 | .61  |      |     |     |     |     |    |     | .44 | .90  | .19  |      |     |     |     | 9.07   |
| Spartanburg       |               | .04  | .02  | .25  | .08  | T.   |     |      | .05 | .03  | .36  |      |      |      |      |      |      |      |     |     |     |     |    |     |     | .05  | .20  | .82  |     |     | .05 | 4.01   |
| Stateburg         |               | .12  | .87  | .83  | .67  |      |     |      |     |      |      | .68  | 1.70 | 2.44 | 1.38 | 1.55 | 1.69 | .25  | .25 |     |     |     |    |     |     | .20  | .76  | .50  |     |     |     | 13.91  |
| Summerville       |               |      | .03  | .12  | .04  | T.   | .06 |      | .04 | .21  |      | .93  | 1.15 | 2.36 | .79  | 1.30 | .10  |      |     |     |     |     |    |     |     |      | .05  | .20  | .82 |     |     | 8.06   |
| Sumter            |               |      | .68  | 1.36 | .05  |      |     | .03  |     |      |      | .50  | 1.30 | 2.30 | 4.30 |      |      | .13  |     | .60 |     |     |    |     |     |      | .86  | .28  |     |     |     | 12.39  |
| Trenton           |               | .77  |      | .03  | T.   |      | T.  |      |     |      |      | 1.90 | 1.53 | .64  | 1.52 | 1.83 |      |      | T.  |     |     |     |    |     |     |      | .40  | .25  |     |     |     | 8.87   |
| Trials            |               |      | .04  | .05  | .14  |      | .30 |      | .10 | T.   |      | .53  | 1.71 | .76  | .74  | .53  | T.   |      |     |     |     |     |    |     |     |      |      |      |     |     |     | 7.95   |
| Wallhalla         |               | .70  | .48  | T.   |      |      | .13 | T.   | T.  |      |      | .57  | 2.40 | T.   | .84  | .80  | .63  |      | .10 |     |     |     |    |     |     |      |      |      |     |     |     | 7.80   |
| Walterboro        |               |      | .50  | .05  |      |      | T.  |      | .06 | .04  |      | .69  | 3.33 | 2.07 | .04  | 1.82 |      |      |     |     |     |     |    |     |     |      |      |      |     |     |     | 12.42  |
| Wilmington, N. C. |               | .90  |      |      | .04  |      | T.  |      |     |      |      |      |      |      |      |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |     |        |

T. indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JULY, 1906.

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## SOUTH CAROLINA SECTION

OF THE

# CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

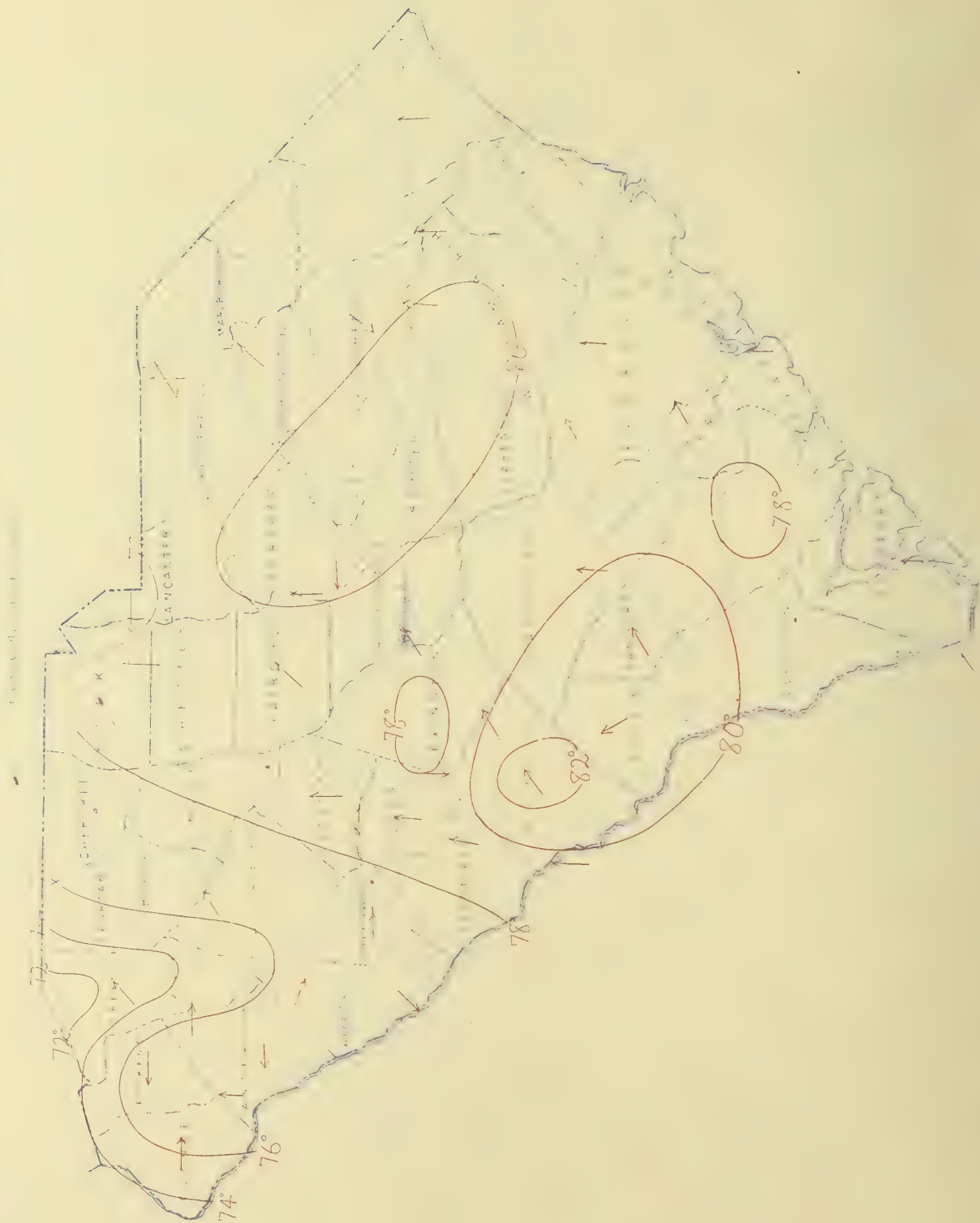
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

AUGUST 25, 1906.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS OF 1880





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. IX.

COLUMBIA, S. C., JULY, 1906.

No. 7.

## GENERAL SUMMARY.

The weather during the present month most nearly resembled July in 1894 in respect to temperature, rainfall, and cloudiness. The average temperature was somewhat higher than in 1894, but it was the second lowest of record during a period of thirteen years. The same is true of the mean of the daily maximum temperatures, while the mean of the daily minimum temperatures was the third lowest of record, it having been lower in 1894 and in 1904. The highest maximum temperature was the same as in 1894 and with that exception was the lowest of record. The daily mean temperature rarely rose above the normal, making the month pleasant and favorable in respect to heat.

The precipitation was excessive over nearly the entire State; the exceptions were small, widely separated areas, represented by four rainfall stations, where the monthly amounts were slightly below normal. The State average precipitation is the largest of record, and exceeded the previous largest amount, that of 1894, by 0.16 of an inch, while the greatest local amount exceeded the previous July record by 0.46 of an inch. The average number of days with rain was the same as in 1894. Rain fell in some portion of the State on every day of the month, and the ground did not become dry enough to be dusty throughout the entire month. The effect of these continuous rains was scarcely noticeable in the flow of the larger rivers, but smaller watercourses overflowed their banks in sections where the rainfall was excessive during 24-hour periods.

Thunderstorms were more numerous than in the preceding June, but there were fewer hailstorms, although some of the July hailstorms were more damaging than any that occurred in June.

The average number of clear days was the smallest of record. The previous smallest average number of clear days was 8 in 1894. Cloudiness was greatest during the middle portions of the day, the afternoons, and during the early parts of the night, while the middle parts of the nights and the early mornings were generally clear.

## Temperature.

The mean temperature for July, 1906, was  $78.4^{\circ}$ , which is  $1.3^{\circ}$  below normal. The highest local mean was  $82.3^{\circ}$  at Aiken, the lowest was  $72.8^{\circ}$  at Greenville. The monthly extremes of temperature were a maximum of  $100^{\circ}$  at Yorkville on the 1st, and a minimum of  $56^{\circ}$  at Trenton on the 13th, making the State range  $44^{\circ}$ . The greatest local monthly range was  $38^{\circ}$  at Trenton and Walhalla, the least was  $23^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $87.4^{\circ}$ , and of the daily minimum temperatures was  $69.5^{\circ}$ , making the average daily range  $17.9^{\circ}$ .

## Precipitation.

The average precipitation was 8.40 inches, which is 2.71 inches above normal. The greatest local monthly amount was 17.77 inches at Clemson College, the least was 4.01 inches at Little Mountain. The greatest 24-hour fall was 3.90 inches at Aiken on the 27th. The average number of days with .01, or more, of rain was 16, ranging from 7 at Chappells to 21 at Liberty, Saluda, and Summerville.

EXCESSIVE PRECIPITATION.—At Aiken on the 27th, 3.90 inches in 24 hours; at Batesburg on the 26th, 1.06 inches in 25 minutes; at Beaufort on the 14th, 2.27 inches in 2 hours; at Blackville on the 31st, 2.73 inches in 24 hours; at Blairs on the 30th, 1.60 inches in 1 hour; at Catawba on the 19th, 1.90 inches in 1 hour and 30 minutes; at Charleston on the 14th-15th, 3.75 inches in 24 hours; at Clemson College on the 14th, 3.06 inches in 24 hours; at Columbia on the 1st, 1.07 inches in 1 hour; at Due West on the 3rd, 2.95 inches in 24 hours; at Kingstree on the 2nd, 2.60 inches in 12 hours; at Liberty on the 15th, 3.35 inches in 3 hours; at St. Matthews on the 16th, 1.90 inches in 1 hour; at Smiths Mills on the 4th, 1.00 inch in 1 hour, and on the 6th, 1.90 inches in 2 hours, and on the 16th, 1.00 in one hour; at Stateburg on the 2nd, 1.13 inches in 45 minutes; at Trenton on the 30th, 3.10 inches in 24 hours; at Walhalla on the 14th, 3.20 inches in 24 hours.

## Wind.

The prevailing direction of the wind was from the south and the southwest at 16 stations each, from the east at 6 stations, from the northeast and the west at 5 stations each, and from the north and the southeast at 1 station each.

## Sunshine and Cloudiness.

The average number of clear days was 5, of partly cloudy days was 17, and of cloudy days was 9.

## MISCELLANEOUS PHENOMENA.

PARHELIA.—At Santuc on the 20th.

SOLAR HALOS.—At Charleston on the 10th, 16th; at Santuc on the 10th, 11th.

LUNAR HALOS.—At Charleston on the 4th, 31st; at Saluda on the 27th, at Stateburg on the 4th; at Winthrop College on the 1st.

DENSE FOGS.—At Blackville and Little Mountain on the 24th; at Columbia on the 26th, 27th; at Liberty on the 9th, 16th, 22nd, 26th; at Seivern on the 27th; at Society Hill on the 5th, 27th; at Stateburg on the 26th, 28th.

THUNDERSTORMS.—Two hundred and fifteen thunderstorms were reported from twenty-two stations on twenty-nine dates, as follows: At Beaufort on the 2, 3, 4, 5, 6, 7, 8, 14, 15, 16, 22, 23, 24, 25, 29, 30, 31; at Bennettsville on the 2, 17, 22; at Blackville on the 1, 2, 3, 5, 8, 12, 18, 22, 23, 24, 25, 26, 29, 31; at Bowman on the 2, 3, 4, 5, 6, 8, 9, 14, 15, 16, 17, 18, 23, 24, 25, 27, 29, 30; at Charleston on the 3, 4, 5, 6, 8, 9, 14, 15, 22, 23, 24, 25, 28, 29, 30, 31; at Cheraw on the 1, 2, 3, 4, 5, 18, 19, 20, 22; at Columbia on the 1, 3, 4, 5, 11, 16, 17, 18, 22, 25, 27, 28, 29, 30, 31; at Due West on the 3, 8, 9, 12, 16, 19; at Kingstree on the 25; at Liberty on the 3, 8, 15, 16, 17, 19, 21, 22, 23, 25, 26, 27, 29, 30, 31; at Newberry on the 1, 4, 11, 16, 17, 20, 25, 29; at Rimini on the 2, 5; at Saluda on the 1, 2, 4, 8, 11, 14, 18, 22, 25, 28, 30; at Santuc on the 2, 5, 11, 16, 17, 18, 19, 20, 22, 25, 29, 31; at Seivern on the 1, 2, 4, 5, 6, 15, 17, 18, 19, 23, 26, 30; at Society Hill on the 2, 3, 4, 8, 11, 19, 22, 23; at Stateburg on the 1, 2, 4, 17, 18, 19, 22, 29; at Summerville on the 3, 4, 5, 6, 8, 15, 18, 23, 25, 28, 29, 31; at



Trenton on the 1, 3, 4, 5, 6, 15, 17, 18, 19, 22, 24, 27, 29, 30, 31; at Trial on the 3, 4, 5, 15, 16, 17, 18, 23, 25, 28, 29, 30, 31; at Winthrop College on the 2, 18, 22, 25, 27, 29; at Yorkville on the 21, 22, 31.

## OBSERVERS' REMARKS.

BEAUFORT.—The accumulated deficiency in temperature since January 1st is 61°, and the accumulated excess in precipitation since January 1st is 9.78 inches.—Sidney M. Benton. BATESBURG.—The rainfall was excessive and damaging. There were no high winds and only a few moderate thunderstorms.—E. J. Hite. BENNETTSVILLE.—The weather throughout the whole month was humid and cool, with too much rainfall. Sunshine was deficient.—C. S. McCall. BOWMAN.—The month was noteworthy for the large number of partly cloudy days, there having been twenty-one such, and only six clear days.—B. O. Evans. HEATH SPRINGS.—Generally cloudy weather prevailed throughout the month, with rain on sixteen days. The temperature range was nearly normal.—J. A. Weaner. LIBERTY.—The month was very wet. High winds and overflows of streams did much damage.—John T. Boggs. SANTUC.—There was only one clear day in the month, while rain fell on nearly half the days. There were no high winds, and only few and light thunderstorms.—E. W. Jeter. STATEBURG.—The month was remarkable for the smallest number of clear days ever observed at this station during any month, only one clear day having been noted, and it also had the largest number of cloudy days and days with rain of record.—W. W. Anderson, M. D. SUMMERVILLE.—More than the July normal precipitation fell during the first half of the month.—Miss E. H. Gadsden. TRENTON.—The accumulated precipitation since January 1st is 10.21 inches in excess of the normal amount. The excessive rainfall for the month was very damaging.—C. A. Long. YORKVILLE.—Many thunderstorms occurred within hearing of the station, in every direction, while only three passed over the station.—J. R. Schrob.

## HAILSTORMS IN JULY.

Hailstorm insurance companies and cooperative observers reported comparatively few hailstorms during July, compared with the number in June, although thunderstorms were more numerous this month. Several of the July hailstorms were unusually destructive, especially one that occurred on the 27th in Greenwood county, near the village of Epworth, where over a considerable area all field crops were destroyed, and many renters made destitute so that State aid was solicited for their relief. Another very severe and damaging hailstorm occurred in Darlington county, in the vicinity of Hartsville, on the 11th, and on the same day in the vicinity of Society Hill; and a very severe hailstorm was reported on the 25th from the town of Kershaw, Lancaster county. As in June, no description of the character of the hailstones was given, but the severity of the storms was expressed in terms indicating the amount of damage wrought. Reports were not received from one insurance company that rendered a report in June, which, had they been received, might have increased the total number of storms somewhat. Only nine hailstorms were reported for July, on five dates, as follows: on the 1st at Hartsville and Darlington; on the 11th at Hartsville and Society Hill; on the 17th at Spartanburg; on the 25th at Lugoff, Kershaw, and Congaree (newspaper dispatches reported hail on this date in Kershaw, Lee, and Sumter counties also); on the 27th at Epworth.

## BAROMETER AND WIND TABLE FOR JULY, 1906.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 29.98      | 30.18    | 20    | 29.78   | 30    | 4.085           | 5.5             | 38                | sw.        | 1     |
| Charleston.....       | 30.01      | 30.19    | 20    | 29.79   | 30    | 7.345           | 9.9             | 32                | n.         | 25    |
| Charlotte, N. C.....  | 30.00      | 30.25    | 7     | 29.81   | 30    | 4.411           | 5.9             | 26                | s.         | 29    |
| Columbia.....         | 29.98      | 30.21    | 7     | 29.77   | 30    | 4.261           | 5.7             | 32                | ne.        | 5     |
| Savannah, Ga.....     | 30.00      | 30.17    | 20    | 29.82   | 30    | 5.024           | 6.7             | 27                | w.         | 30    |
| Wilmington, N. C..... | 29.98      | 30.18    | 20    | 29.80   | 24    | 5.647           | 7.6             | 26                | sw.        | 3     |
| Averages.....         | 29.99      | 30.25    | 7     | 29.77   | 30    | 5.129           | 6.9             | 38                | sw.        | 1     |

## RIVER STAGES, JULY, 1906.

| Stations.          | Mean. | Highest. | Date. | Lowest. | Date. |
|--------------------|-------|----------|-------|---------|-------|
| Blairs.....        | 2.6   | 5.6      | 26    | 0.7     | 17    |
| Calhoun Falls..... |       |          |       |         |       |
| Camden.....        | 11.4  | 18.1     | 20    | 5.1     | 16    |
| Catawba.....       | 3.7   | 6.4      | 23    | 1.9     | 15    |
| Chappells.....     | 6.4   | 11.0     | 10    | 2.4     | 1     |
| Cheraw.....        |       |          |       |         |       |
| Columbia.....      | 2.8   | 5.9      | 20    | 1.3     | 8     |
| Edisto.....        | 4.3   | 5.2      | 10    | 3.6     | 17    |
| Effingham.....     |       |          |       |         |       |
| Kingstree.....     |       |          |       |         |       |
| Mt. Holly.....     | 2.5   | 3.8      | 31    | 1.6     | *3    |
| Pelzer.....        | 4.1   | 5.2      | *18   | 3.0     | 14    |
| Rimini.....        | 11.1  | 13.0     | 29    | 7.0     | 17    |
| Smiths Mills.....  |       |          |       |         |       |
| St. Stephens.....  | 8.1   | 8.8      | 31    | 7.5     | *19   |

\* On other dates also.

## JULY WEATHER.

## Temperature, Rainy Days and Wind.

| Year.     | Mean Temp. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|-----------|------------|---------------|--------------|-------------|-------------------|
| 1894..... | 78         | 100           | 55           | 16          | sw.               |
| 1895..... | 80         | 102           | 54           | 8           | sw.               |
| 1896..... | 81         | 105           | 51           | 13          | sw.               |
| 1897..... | 80         | 107           | 54           | 11          | sw.               |
| 1898..... | 80         | 102           | 54           | 14          | sw.               |
| 1899..... | 80         | 105           | 47           | 9           | sw.               |
| 1900..... | 81         | 104           | 47           | 9           | sw.               |
| 1901..... | 81         | 102           | 55           | 10          | sw.               |
| 1902..... | 81         | 107           | 58           | 9           | sw.               |
| 1903..... | 80         | 103           | 45           | 8           | sw.               |
| 1904..... | 79         | 105           | 50           | 12          | sw.               |
| 1905..... | 80         | 101           | 60           | 12          | sw.               |
| 1906..... | 78         | 100           | 56           | 16          | sw.               |

## Precipitation.

| Year.    | State Average. | Greatest Monthly. | Place.           | Least Monthly. | Place.            |
|----------|----------------|-------------------|------------------|----------------|-------------------|
| 1894.... | 8.24           | 17.31             | Hardeville.      | 3.59           | Yorkville.        |
| 1895.... | 4.17           | 8.20              | Georgetown.      | 0.73           | Cheraw.           |
| 1896.... | 8.17           | 15.72             | Greenwood.       | 3.42           | St. Stephens.     |
| 1897.... | 5.01           | 9.81              | St. Stephens.    | 2.00           | Spartanburg.      |
| 1898.... | 7.81           | 12.99             | Charleston.      | 4.72           | Effingham.        |
| 1899.... | 4.03           | 10.16             | Temperance.      | 1.58           | Trenton.          |
| 1900.... | 4.08           | 11.29             | St. Matthews.    | 1.05           | Greenwood.        |
| 1901.... | 4.52           | 13.25             | Georgetown.      | 0.65           | Winnsboro.        |
| 1902.... | 3.79           | 9.62              | Yemassee.        | 0.71           | Winnsboro.        |
| 1903.... | 3.59           | 8.54              | Gillisonville.   | 0.95           | Winthrop College. |
| 1904.... | 5.96           | 14.38             | Cheraw.          | 1.44           | Clemson College.  |
| 1905.... | 6.16           | 14.29             | Calhoun Falls.   | 3.15           | St. George.       |
| 1906.... | 8.40           | 17.77             | Clemson College. | 4.01           | Little Mountain.  |

## ERRATA.

The following corrections should be made in the June, 1906, number of the Monthly Reports: The total precipitation at Calhoun Falls, page 45, 7.19, should be 7.69; at Chappells, page 45, the total precipitation, 7.07, should be 7.05; on pages 45 and 48, the total precipitation at Due West, 7.32, should be 7.22; and at Saluda, 8.74, should be 8.34.



CLIMATOLOGICAL DATA FOR THE MONTH OF JULY, 1906.

| STATIONS.                             | COUNTIES.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit |                            |          |       |         |       | Precipitation—inches  |        |                            |                       |                           | Sky.                |                        |                       |                        |                  | Observations.           |
|---------------------------------------|---------------|-----------------|-------------------------|-----------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|--------|----------------------------|-----------------------|---------------------------|---------------------|------------------------|-----------------------|------------------------|------------------|-------------------------|
|                                       |               |                 |                         | Mean.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall in inches. | Number of dry days. | Number of cloudy days. | Number of rainy days. | Number of stormy days. | Prevailing wind. |                         |
| Aiken.                                | Aiken.        | 565             | 22                      | 82.3                              | +1.2                       | 98       | 22    | 67      | *2    | 28                    | 10.09  | +5.24                      | 3.96                  | 0                         | 18                  | 4                      | 24                    | 6                      | sw.              | C. F. McGahan, M. D.    |
| Allendale.                            | Barnwell.     | 186             | 18                      | 81.0                              | +0.2                       | 96       | 1     | 65      | 26    | 22                    | 6.25   | +0.44                      | 1.97                  | 0                         | 8                   | 11                     | 17                    | 0                      | o.               | A. R. Hiers.            |
| Anderson.                             | Anderson.     | 704             | 5                       | 76.9                              | -1.2                       | 95       | 1     | 65      | *24   | 23                    | 8.73   | +3.89                      | 2.22                  | 0                         | 15                  | 15                     | 11                    | 0                      | o.               | H. H. Russell.          |
| Augusta, Ga.                          | Richmond.     | 444             | 35                      | 78.6                              | -2.5                       | 92       | 1     | 64      | 26    | 22                    | 14.00  | +8.74                      | 3.75                  | 0                         | 17                  | 5                      | 15                    | 11                     | o.               | Weather Bureau.         |
| Barksdale.                            | Laurens.      | 680             | 5                       |                                   |                            |          |       |         |       |                       |        |                            |                       | 0                         | 10                  | 8                      | 13                    | 0                      | o.               | J. T. Garrett.          |
| Batesburg.                            | Lexington.    | 656             | 18                      | 77.4                              | -2.5                       | 95       | 1     | 62      | 26    | 26                    | 9.49   | +3.15                      | 1.61                  | 0                         | 15                  | 7                      | 20                    | 4                      | o.               | E. J. Hite.             |
| Beaufort.                             | Beaufort.     | 20              | 20                      | 79.8                              | -2.2                       | 91       | 24    | 67      | 26    | 19                    | 8.50   | +2.77                      | 2.27                  | 0                         | 19                  | 5                      | 18                    | 6                      | o.               | S. M. Benton.           |
| Bennettsville.                        | Marlboro.     | 151             | 5                       | 79.4                              |                            | 91       | *10   | 67      | *8    | 27                    | 6.78   |                            | 1.49                  | 0                         | 13                  | 24                     | 2                     | 8                      | o.               | C. S. McCall.           |
| Blackville.                           | Barnwell.     | 296             | 18                      | 81.0                              | -0.4                       | 98       | *15   | 63      | 26    | 25                    | 7.80   | +2.07                      | 2.73                  | 0                         | 16                  | 3                      | 16                    | 12                     | o.               | G. D. C. Lange.         |
| Blairs.                               | Fairfield.    | 293             | 1                       |                                   |                            |          |       |         |       |                       | 4.22   |                            | 1.60                  | 0                         | 20                  | 6                      | 24                    | 4                      | o.               | T. S. McMeekin.         |
| Bowman.                               | Orangeburg.   | 160             | 5                       | 79.5                              |                            | 97       | 1     | 60      | 26    | 26                    | 7.40   |                            | 1.15                  | 0                         | 10                  | 8                      | 0                     | 24                     | o.               | B. O. Evans.            |
| Calhoun Falls.                        | Abbeville.    | 508             | 13                      |                                   |                            |          |       |         |       |                       | 6.98   | +2.43                      | 0.98                  | 0                         | 14                  | 8                      | 15                    | 8                      | o.               | P. J. Pfeiffer.         |
| Camden.                               | Kershaw.      | 222             | 40                      |                                   |                            |          |       |         |       |                       | 6.94   | +1.90                      | 1.30                  | 0                         | 11                  | 11                     | 11                    | 9                      | o.               | W. C. Brown.            |
| Catawba.                              | York.         |                 |                         |                                   |                            |          |       |         |       |                       | 9.86   |                            | 2.04                  | 0                         | 7                   | 9                      | 4                     | 18                     | o.               | James V. Brice.         |
| Chapin.                               | Newberry.     | 402             | 1                       |                                   |                            |          |       |         |       |                       | 7.13   |                            | 2.32                  | 0                         | 18                  | 5                      | 17                    | 9                      | o.               | W. F. Glenn.            |
| Charleston.                           | Charleston.   | 48              | 37                      | 79.8                              | -2.0                       | 90       | 1     | 67      | 25    | 16                    | 8.68   | +1.09                      | 2.71                  | 0                         | 17                  | 2                      | 16                    | 13                     | sw.              | Weather Bureau.         |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 28                      | 76.5                              | -1.7                       | 94       | 1     | 66      | 9     | 22                    | 5.57   | +0.03                      | 2.21                  | 0                         | 17                  | 2                      | 16                    | 13                     | sw.              | Weather Bureau.         |
| Cheraw (1).                           | Chesterfield. | 144             | 18                      | 77.4                              | -3.1                       | 91       | 1     | 67      | *7    | 18                    | 6.14   | -0.41                      | 0.92                  | 0                         | 13                  | 7                      | 10                    | 14                     | o.               | W. R. Godfrey.          |
| Clarks Hill.                          | Edgefield.    | 144             | 13                      |                                   |                            |          |       |         |       |                       | 5.95   | -0.47                      | 0.96                  | 0                         | 17                  | 9                      | 12                    | 10                     | o.               | Jno. H. Hook.           |
| Clemson College.                      | Oconee.       | 500             | 4                       | 77.1                              |                            | 96       | 1     | 63      | *23   | 20                    | 6.02   |                            | 1.37                  | 0                         | 12                  | 0                      | 25                    | 6                      | o.               | Wm. S. Middleton.       |
| Columbia.                             | Richland.     | 850             | 15                      | 77.5                              | -1.5                       | 97       | 1     | 64      | 24    | 26                    | 17.77  | +12.56                     | 3.06                  | 0                         | 18                  | 9                      | 15                    | 7                      | o.               | Jno. N. Hook.           |
| Conway.                               | Florry.       | 351             | 19                      | 78.1                              | -2.5                       | 94       | 1     | 66      | 26    | 24                    | 8.51   | +2.91                      | 1.68                  | 0                         | 20                  | 2                      | 12                    | 17                     | sw.              | Central Office.         |
| Darlington.                           | Darlington.   | 25              | 14                      | 79.2                              |                            | 96       | 1     | 65      | 8     | 27                    | 6.55   | -0.30                      | 2.20                  | 0                         | 12                  | 16                     | 1                     | 14                     | o.               | Miss M. G. Quattlebaum. |
| Dillon.                               | Marion.       | 175             | 11                      | 78.6                              |                            | 92       | *10   | 66      | *10   | 26                    | 6.71   | +1.27                      | 2.02                  | 0                         | 14                  | 5                      | 20                    | 6                      | o.               | Miss F. G. McIver.      |
| Due West.                             | Abbeville.    | 100             | 2                       | 79.8                              |                            | 96       | 1     | 65      | *8    | 28                    | 9.80   |                            | 2.70                  | 0                         | 16                  |                        |                       |                        | o.               | A. E. Rowell.           |
| Edisto.                               | Spartanburg.  | 730             | 5                       | 76.7                              |                            | 90       | *2    | 65      | *24   | 21                    | 11.38  |                            | 2.95                  | 0                         | 15                  | 11                     | 3                     | 17                     | o.               | Rev. O. Y. Bonner.      |
| Edlingham.                            | Florence.     | 127             | 13                      |                                   |                            |          |       |         |       |                       | 7.48   | +2.50                      | 1.81                  | 0                         | 8                   | 12                     | 6                     | 13                     | sw.              | Mrs. M. Thompson.       |
| Enoree.                               | Spartanburg.  | 106             | 14                      |                                   |                            |          |       |         |       |                       | 7.35   | +2.71                      | 1.50                  | 0                         | 10                  | 16                     | 2                     | 13                     | o.               | H. B. McCall.           |
| Florence.                             | Florence.     | 987             | 1                       |                                   |                            |          |       |         |       |                       | 8.58   |                            | 2.00                  | 0                         | 13                  | 12                     | 0                     | 19                     | o.               | J. W. King.             |
| Gaffney.                              | Cherokee.     | 136             | 18                      | 79.6                              | -1.7                       | 95       | *1    | 64      | 8     | 26                    | 6.47   | +1.11                      | 1.90                  | 0                         | 17                  | 11                     | 7                     | 13                     | o.               | H. K. Gilbert.          |
| Georgetown.                           | Georgetown.   | 893             | 10                      |                                   |                            |          |       |         |       |                       |        |                            |                       | 0                         | 11                  | 7                      | 19                    | 5                      | sw.              | B. F. Camp.             |
| Greenville.                           | Greenville.   | 12              | 13                      | 78.2                              | -2.3                       | 90       | 1     | 65      | 7     | 16                    | 8.40   | +0.48                      | 1.20                  | 0                         | 14                  | 7                      | 19                    | 5                      | sw.              | Reid Whitford.          |
| Greenwood.                            | Greenwood.    | 980             | 14                      | 72.8                              | -3.6                       | 93       | 1     | 61      | *9    | 25                    | 10.00  | +4.31                      | 1.85                  | 0                         | 18                  | 12                     | 2                     | 17                     | sw.              | Mrs. S. A. Crittenden.  |
| Heath Spring.                         | Lawrence.     | 671             | 18                      | 77.0                              | -3.0                       | 96       | 1     | 62      | 26    | 23                    | 9.71   | +4.79                      | 2.30                  | 0                         | 13                  | 14                     | 0                     | 17                     | o.               | M. M. Calhoun.          |
| Kingstree (1).                        | Williamsburg. | 568             | 5                       | 80.0                              |                            | 96       | *1    | 65      | 26    | 24                    | 4.53   |                            | 1.00                  | 0                         | 16                  | 3                      | 15                    | 13                     | o.               | J. A. Weaver.           |
| Kingstree (2).                        | Pickens.      | 54              | 12                      | 77.0                              | -2.0                       | 95       | *1    | 62      | 24    | 26                    | 11.89  | +6.30                      | 3.35                  | 0                         | 21                  | 6                      | 19                    | 6                      | o.               | J. A. Scott.            |
| Liberty.                              | Newberry.     | 900             | 13                      | 78.2                              | -2.3                       | 97       | 1     | 65      | 13    | 30                    | 4.01   | -1.40                      | 1.04                  | 0                         | 15                  | 1                      | 16                    | 14                     | sw.              | A. O. Matthews.         |
| Little Mountain.                      | Union.        | 630             | 2                       | 79.2                              | +0.1                       | 97       | 1     | 64      | 26    | 27                    | 5.37   | -0.61                      | 1.60                  | 0                         | 17                  | 1                      | 19                    | 11                     | o.               | Jno. T. Boggs.          |
| Lockhart.                             | Newberry.     | 502             | 1                       |                                   |                            |          |       |         |       |                       | 9.92   |                            | 2.88                  | 0                         | 18                  | 12                     | 15                    | 4                      | o.               | John M. Sease, M. D.    |
| Pinopolis.                            | Anderson.     | 873             | 13                      |                                   |                            |          |       |         |       |                       |        |                            |                       | 0                         | 15                  |                        |                       |                        | o.               | R. W. Boney.            |
| St. George.                           | Berkeley.     | 109             | 18                      | 81.6                              | +1.2                       | 94       | 1     | 70      | 26    | 20                    | 7.14   | +1.10                      | 1.65                  | 0                         | 9                   |                        |                       |                        | o.               | W. G. Peterson.         |
| St. Matthews.                         | Dorchester.   | 269             | 18                      | 78.8                              | +1.6                       | 91       | 1     | 65      | 26    | 18                    | 5.38   | -1.20                      | 1.90                  | 0                         | 16                  | 12                     | 14                    | 5                      | o.               | John M. Ward.           |
| St. Stephen.                          | Orangeburg.   | 73              | 14                      |                                   |                            |          |       |         |       |                       | 7.51   | +1.62                      | 1.22                  | 0                         | 16                  | 12                     | 14                    | 5                      | o.               | E. P. Ravenel.          |
| Saluda.                               | Berkeley.     | 536             | 5                       | 78.2                              |                            | 96       | 1     | 61      | 26    | 25                    | 6.22   |                            | 0.88                  | 0                         | 21                  | 11                     | 18                    | 2                      | o.               | G. T. Lewis.            |
| Santuc.                               | Saluda.       | 512             | 13                      | 77.7                              | -1.1                       | 99       | 1     | 63      | 13    | 28                    | 5.31   | +0.22                      | 2.07                  | 0                         | 13                  | 1                      | 19                    | 11                     | o.               | J. S. Warnamaker.       |
| Savannah, Ga.                         | Union.        | 71              | 37                      | 79.6                              | -2.3                       | 91       | 1     | 67      | 26    | 18                    | 5.42   | -0.39                      | 1.20                  | 0                         | 20                  | 3                      | 16                    | 12                     | sw.              | C. T. Shuler.           |
| Severn.                               | Chatham.      | 482             | 5                       | 78.0                              | -1.9                       | 95       | *1    | 60      | 26    | 27                    | 8.62   | +4.27                      | 2.15                  | 0                         | 15                  | 2                      | 5                     | 24                     | o.               | Alvin Etheridge.        |
| Smiths Mills.                         | Aiken.        | 102             | 11                      |                                   |                            |          |       |         |       |                       | 12.10  | +5.31                      | 1.90                  | 0                         | 19                  | 17                     | 0                     | 14                     | o.               | E. W. Jeter.            |
| Society Hill.                         | Williamsburg. | 102             | 15                      | 78.9                              | 0.0                        | 92       | *1    | 67      | *7    | 22                    | 6.79   | +0.09                      | 1.18                  | 0                         | 16                  | 3                      | 18                    | 10                     | sw.              | Weather Bureau.         |
| Spartanburg.                          | Darlington.   | 875             | 15                      | 77.3                              | -1.9                       | 98       | 1     | 63      | 9     | 27                    | 7.97   | +3.74                      | 2.55                  | 0                         | 14                  | 6                      | 5                     | 20                     | o.               | Geo. C. Gunter.         |
| Stateburg.                            | Spartanburg.  | 500             | 29                      | 78.2                              | -0.6                       | 93       | 1     | 65      | 25    | 20                    | 9.90   | +4.74                      | 1.13                  | 0                         | 18                  | 1                      | 12                    | 18                     | o.               | H. van Keuren.          |
| Summerville.                          | Sumter.       | 169             | 9                       | 79.4                              | +0.2                       | 95       | 1     | 64      | 26    | 25                    | 13.27  | +7.44                      | 1.91                  | 0                         | 21                  | 5                      | 14                    | 12                     | sw.              | J. J. Lucas.            |
| Sumter.                               | Dorchester.   | 620             | 13                      | 77.2                              | -3.6                       | 94       | *1    | 56      | 13    | 26                    | 14.76  | +8.43                      | 3.10                  | 0                         | 18                  | 2                      | 27                    | 0                      | o.               | F. P. Robinson.         |
| Trenton.                              | Edgefield.    | 85              | 20                      | 78.2                              | -0.5                       | 94       | 1     | 65      | 25    | 23                    | 8.96   | +2.38                      | 1.39                  | 0                         | 19                  | 1                      | 18                    | 12                     | sw.              | W. W. Anderson, M. D.   |
| Tribe.                                | Berkeley.     | 1061            | 15                      | 76.6                              | +0.1                       | 98       | 1     | 60      | 24    | 30                    | 13.47  | +8.17                      | 3.30                  | 0                         | 14                  | 2                      | 29                    | 0                      | o.               | Miss E. H. Gadsden.     |
| Walhalla.                             | Oconee.       | 69              | 3                       | 77.8                              |                            | 92       | 1     | 66      | *6    | 23                    | 10.65  |                            | 1.85                  | 0                         | 19                  | 9                      | 16                    | 6                      | o.               | H. A. Moses.            |
| Walterboro.                           | Colleton.     | 52              | 37                      | 78.1                              | +1.6                       | 91       | 1     | 67      | 8     | 17                    | 7.64   | +0.40                      | 2.93                  | 0                         | 16                  | 2                      | 19                    | 10                     | sw.              | C. A. Long.             |
| Wilmington, N. C.                     | New Hanover.  | 545             | 17                      | 78.4                              | -0.5                       | 95       | 1     | 65      | 12    | 21                    | 5.54   | +0.54                      | 0.98                  | 0                         | 13                  | 6                      | 22                    | 3                      | o.               | Etsell Gaillard.        |
| Winnsboro.                            | Fairfield.    | 690             | 7                       | 78.0                              | -1.0                       | 96       | 1     | 64      | 13    | 25                    | 7.83   | +2.61                      | 1.76                  | 0                         | 17                  | 9                      | 20                    | 2                      | o.               | Miss Jessie Douthit.    |
| Winthrop College.                     | York.         | 23              | 11                      | 78.8                              | -4.0                       | 93       | *1    | 65      | 26    | 22                    | 9.90   | +4.09                      | 1.50                  | 0                         | 17                  | 17                     | 8                     | 6                      | o.               | J. A. Westerberg.       |
| Yemassee.                             | Beaufort.     | 680             | 18                      | 79.2                              | 0.0                        | 100      | 1     | 66      | 13    | 26                    | 6.24   | +0.81                      | 1.58                  | 0                         | 14                  | 0                      | 15                    | 16                     | sw.              | Weather Bureau.         |
| Yorkville.                            | York.         |                 |                         |                                   |                            |          |       |         |       |                       |        |                            |                       | 0                         | 16                  | 5                      | 17                    | 9                      | sw.              | John W. Seigler.        |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 78.4                              | -1.3                       | 100      | 1     | 56      | 13    | 30                    | 8.40   | +2.71                      | 3.90                  | 0                         | 16                  | 5                      | 17                    | 9                      | sw.              | E. R. Rivers.           |
|                                       |               |                 |                         |                                   |                            |          |       |         |       |                       |        |                            |                       |                           |                     |                        |                       |                        |                  | J. G. Hutson.           |
|                                       |               |                 |                         |                                   |                            |          |       |         |       |                       |        |                            |                       |                           |                     |                        |                       |                        |                  | J. R. Schorb.           |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. \* On other dates also a indicates 1 day missing, b, 2 days, etc. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. ° The state of sky at 8 a.m. not used in averages.



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

JULY, 1906.

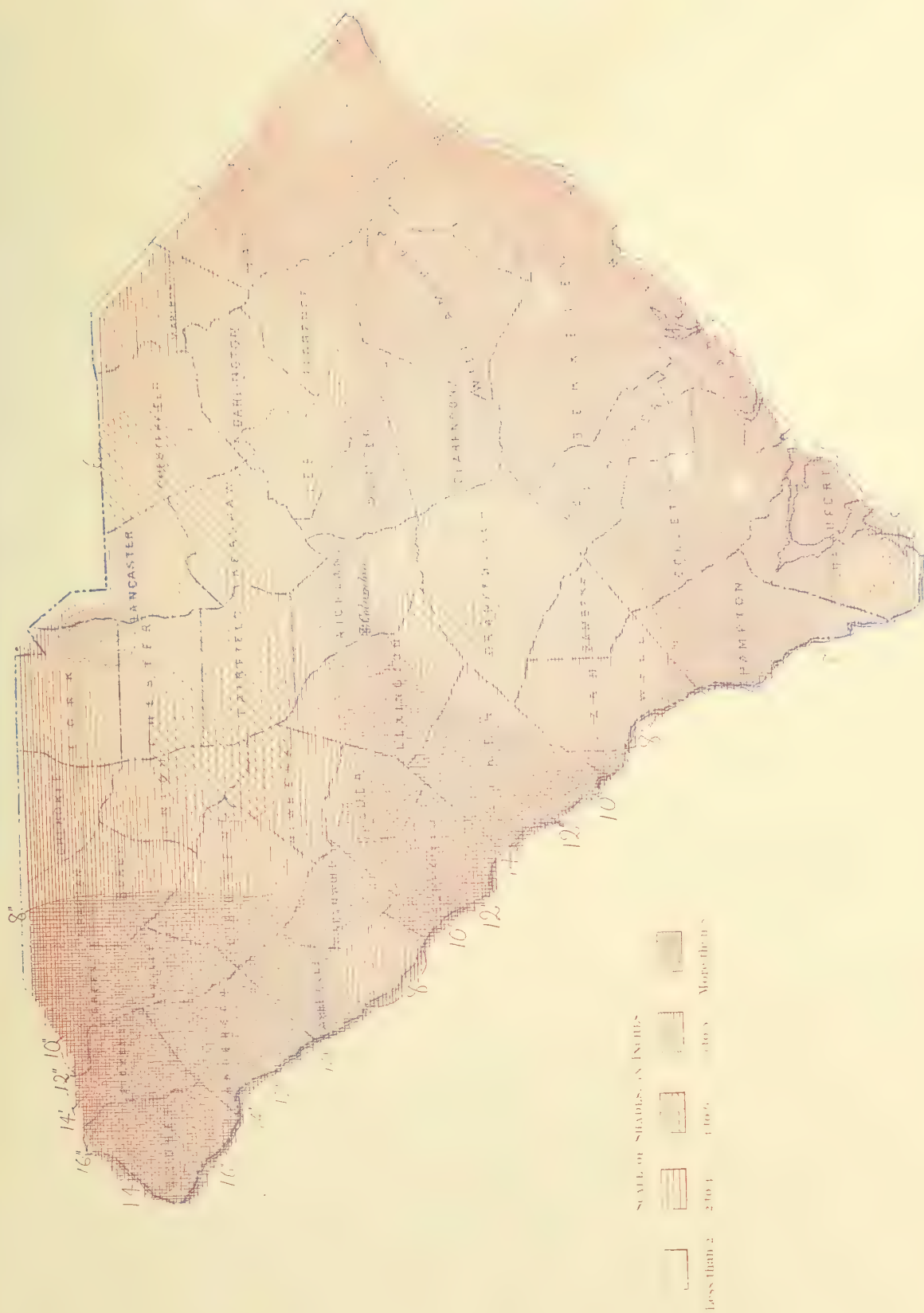
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JULY, 1908.

| STATIONS.             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | Monthly mean. |     |    |
|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|---------------|-----|----|
| 1                     | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Max           | Min |    |
| Aiken.....            | 97 | 69 | 92 | 67 | 94 | 70 | 89 | 71 | 88 | 69 | 91 | 78 | 88 | 74 | 88 | 74 | 88 | 74 | 88 | 74 | 88 | 74 | 88 | 74 | 88 | 74 | 88 | 74 | 88 | 74   | 88            | 74  | 88 |
| Allendale*.....       | 96 | 74 | 94 | 76 | 91 | 74 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72 | 89 | 72   | 89            | 72  | 89 |
| Anderson.....         | 95 | 73 | 90 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70   | 83            | 70  | 83 |
| Angusville.....       | 95 | 73 | 90 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70   | 83            | 70  | 83 |
| Barksdale.....        | 95 | 73 | 90 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70 | 83 | 70   | 83            | 70  | 83 |
| Batesburg*.....       | 95 | 69 | 87 | 65 | 90 | 65 | 86 | 66 | 85 | 65 | 81 | 70 | 80 | 67 | 85 | 64 | 87 | 65 | 85 | 65 | 85 | 65 | 85 | 65 | 85 | 65 | 85 | 65 | 85 | 65   | 85            | 65  | 85 |
| Beaufort.....         | 90 | 75 | 87 | 85 | 75 | 85 | 74 | 87 | 78 | 84 | 69 | 85 | 73 | 86 | 73 | 86 | 73 | 86 | 73 | 86 | 73 | 86 | 73 | 86 | 73 | 86 | 73 | 86 | 73 | 86   | 73            | 86  |    |
| Bemontsville.....     | 93 | 74 | 90 | 69 | 80 | 71 | 83 | 72 | 88 | 71 | 83 | 71 | 87 | 67 | 81 | 70 | 88 | 71 | 83 | 71 | 83 | 71 | 83 | 71 | 83 | 71 | 83 | 71 | 83 | 71   | 83            | 71  | 83 |
| Blackville.....       | 97 | 72 | 93 | 72 | 89 | 76 | 80 | 74 | 82 | 76 | 80 | 72 | 85 | 70 | 82 | 70 | 85 | 70 | 82 | 70 | 82 | 70 | 82 | 70 | 82 | 70 | 82 | 70 | 82 | 70   | 82            | 70  | 82 |
| Bowman.....           | 97 | 71 | 94 | 73 | 93 | 70 | 94 | 69 | 92 | 69 | 88 | 68 | 86 | 70 | 93 | 71 | 93 | 68 | 90 | 70 | 93 | 71 | 93 | 68 | 90 | 70 | 93 | 71 | 93 | 68   | 90            | 70  | 93 |
| Charleston.....       | 90 | 78 | 88 | 78 | 73 | 85 | 74 | 83 | 73 | 82 | 72 | 84 | 73 | 86 | 75 | 84 | 72 | 81 | 73 | 86 | 75 | 84 | 72 | 81 | 73 | 86 | 75 | 84 | 72 | 81   | 73            | 86  |    |
| Charlotte, N. C.....  | 94 | 72 | 88 | 68 | 83 | 71 | 86 | 73 | 85 | 69 | 76 | 69 | 83 | 68 | 82 | 71 | 86 | 73 | 85 | 69 | 76 | 69 | 83 | 68 | 82 | 71 | 86 | 73 | 85 | 69   | 76            | 69  | 83 |
| Cherokee, N. C.....   | 91 | 73 | 87 | 86 | 78 | 73 | 81 | 75 | 70 | 81 | 67 | 83 | 68 | 82 | 72 | 87 | 71 | 83 | 68 | 82 | 72 | 87 | 71 | 83 | 68 | 82 | 72 | 87 | 71 | 83   | 68            | 82  | 72 |
| Clerk's Hill.....     | 96 | 70 | 95 | 80 | 69 | 80 | 68 | 89 | 78 | 68 | 87 | 67 | 85 | 72 | 87 | 67 | 85 | 72 | 87 | 67 | 85 | 72 | 87 | 67 | 85 | 72 | 87 | 67 | 85 | 72   | 87            | 67  | 85 |
| Clemson College.....  | 97 | 71 | 93 | 70 | 87 | 73 | 87 | 72 | 90 | 65 | 80 | 70 | 80 | 68 | 85 | 69 | 88 | 70 | 83 | 68 | 85 | 69 | 88 | 70 | 83 | 68 | 85 | 69 | 88 | 70   | 83            | 68  | 85 |
| Columbia.....         | 94 | 70 | 90 | 70 | 85 | 72 | 85 | 72 | 86 | 69 | 81 | 73 | 80 | 68 | 82 | 71 | 86 | 73 | 85 | 69 | 76 | 69 | 83 | 68 | 82 | 71 | 86 | 73 | 85 | 69   | 76            | 69  | 83 |
| Conway.....           | 96 | 75 | 94 | 70 | 87 | 72 | 86 | 72 | 84 | 72 | 84 | 72 | 84 | 72 | 84 | 72 | 84 | 72 | 84 | 72 | 84 | 72 | 84 | 72 | 84 | 72 | 84 | 72 | 84 | 72   | 84            | 72  | 84 |
| Darlington.....       | 88 | 73 | 80 | 78 | 73 | 85 | 71 | 84 | 69 | 73 | 73 | 84 | 68 | 88 | 72 | 87 | 71 | 83 | 68 | 82 | 72 | 87 | 71 | 83 | 68 | 82 | 72 | 87 | 71 | 83   | 68            | 82  | 72 |
| Dillon.....           | 90 | 76 | 90 | 75 | 88 | 73 | 81 | 70 | 79 | 72 | 82 | 68 | 85 | 71 | 83 | 68 | 82 | 72 | 87 | 71 | 83 | 68 | 82 | 72 | 87 | 71 | 83 | 68 | 82 | 72   | 87            | 71  | 83 |
| Due West.....         | 88 | 67 | 90 | 70 | 85 | 71 | 87 | 71 | 86 | 68 | 83 | 70 | 79 | 67 | 76 | 70 | 82 | 68 | 85 | 71 | 83 | 68 | 82 | 70 | 85 | 71 | 83 | 68 | 82 | 70   | 85            | 71  | 83 |
| Flomeston.....        | 95 | 74 | 91 | 67 | 88 | 71 | 87 | 71 | 91 | 70 | 82 | 73 | 87 | 68 | 88 | 64 | 89 | 72 | 93 | 67 | 89 | 72 | 93 | 67 | 89 | 72 | 93 | 67 | 89 | 72   | 93            | 67  | 89 |
| Gaffney.....          | 97 | 68 | 88 | 78 | 86 | 78 | 85 | 75 | 84 | 74 | 82 | 72 | 86 | 75 | 84 | 72 | 86 | 75 | 84 | 72 | 86 | 75 | 84 | 72 | 86 | 75 | 84 | 72 | 86 | 75   | 84            | 72  | 86 |
| Georgetown.....       | 93 | 68 | 90 | 67 | 86 | 70 | 86 | 64 | 78 | 64 | 78 | 64 | 78 | 64 | 78 | 64 | 78 | 64 | 78 | 64 | 78 | 64 | 78 | 64 | 78 | 64 | 78 | 64 | 78 | 64   | 78            | 64  | 78 |
| Greenwood*.....       | 96 | 73 | 88 | 63 | 69 | 74 | 85 | 68 | 82 | 69 | 79 | 68 | 80 | 67 | 79 | 68 | 80 | 67 | 79 | 68 | 80 | 67 | 79 | 68 | 80 | 67 | 79 | 68 | 80 | 67   | 79            | 68  | 80 |
| Heath Spring.....     | 96 | 74 | 93 | 70 | 90 | 72 | 88 | 68 | 88 | 68 | 91 | 73 | 84 | 72 | 86 | 70 | 88 | 72 | 93 | 67 | 89 | 72 | 93 | 67 | 89 | 72 | 93 | 67 | 89 | 72   | 93            | 67  | 89 |
| Kingstree*.....       | 93 | 83 | 89 | 77 | 85 | 75 | 88 | 75 | 82 | 73 | 80 | 70 | 85 | 75 | 87 | 65 | 88 | 74 | 92 | 66 | 83 | 71 | 89 | 60 | 83 | 71 | 89 | 60 | 83 | 71   | 89            | 60  | 83 |
| Lalor.....            | 95 | 70 | 90 | 66 | 86 | 71 | 85 | 71 | 86 | 63 | 71 | 82 | 68 | 81 | 68 | 80 | 70 | 87 | 60 | 83 | 71 | 89 | 60 | 83 | 71 | 89 | 60 | 83 | 71 | 89   | 60            | 83  |    |
| Little Mountain.....  | 97 | 73 | 92 | 67 | 86 | 72 | 91 | 71 | 89 | 60 | 83 | 71 | 82 | 67 | 80 | 70 | 87 | 60 | 83 | 71 | 89 | 60 | 83 | 71 | 89 | 60 | 83 | 71 | 89 | 60   | 83            | 71  | 89 |
| Newberry.....         | 97 | 72 | 93 | 69 | 90 | 72 | 93 | 69 | 93 | 74 | 84 | 68 | 82 | 71 | 84 | 68 | 82 | 71 | 84 | 68 | 82 | 71 | 84 | 68 | 82 | 71 | 84 | 68 | 82 | 71   | 84            | 68  | 82 |
| North George*.....    | 94 | 81 | 92 | 80 | 79 | 88 | 75 | 89 | 73 | 84 | 71 | 91 | 71 | 87 | 76 | 83 | 74 | 90 | 74 | 88 | 74 | 90 | 74 | 88 | 74 | 90 | 74 | 88 | 74 | 90   | 74            | 88  | 74 |
| St. Matthews*.....    | 91 | 74 | 88 | 73 | 87 | 71 | 83 | 71 | 85 | 70 | 84 | 71 | 88 | 68 | 81 | 71 | 88 | 68 | 81 | 71 | 88 | 68 | 81 | 71 | 88 | 68 | 81 | 71 | 88 | 68   | 81            | 71  | 88 |
| Saluda.....           | 96 | 71 | 94 | 68 | 86 | 71 | 90 | 71 | 83 | 60 | 84 | 70 | 85 | 68 | 80 | 70 | 85 | 68 | 80 | 70 | 85 | 68 | 80 | 70 | 85 | 68 | 80 | 70 | 85 | 68   | 80            | 70  | 85 |
| Santee.....           | 99 | 71 | 92 | 69 | 85 | 71 | 92 | 71 | 89 | 67 | 81 | 60 | 85 | 67 | 81 | 60 | 85 | 67 | 81 | 60 | 85 | 67 | 81 | 60 | 85 | 67 | 81 | 60 | 85 | 67   | 81            | 60  | 85 |
| Swannah, Ga.....      | 91 | 73 | 87 | 72 | 86 | 74 | 85 | 72 | 87 | 72 | 85 | 72 | 83 | 69 | 72 | 83 | 69 | 72 | 83 | 69 | 72 | 83 | 69 | 72 | 83 | 69 | 72 | 83 | 69 | 72   | 83            | 69  | 72 |
| Tallevast.....        | 95 | 69 | 83 | 68 | 70 | 80 | 66 | 86 | 66 | 82 | 71 | 83 | 66 | 86 | 64 | 80 | 67 | 87 | 68 | 91 | 71 | 89 | 68 | 91 | 71 | 89 | 68 | 91 | 71 | 89   | 68            | 91  | 71 |
| Tolmie Hill.....      | 92 | 71 | 90 | 74 | 80 | 73 | 85 | 70 | 86 | 72 | 79 | 68 | 82 | 75 | 72 | 85 | 70 | 86 | 72 | 79 | 68 | 82 | 75 | 72 | 85 | 70 | 86 | 72 | 79 | 68   | 82            | 75  | 72 |
| Trenton.....          | 98 | 71 | 90 | 74 | 80 | 73 | 85 | 70 | 86 | 72 | 79 | 68 | 82 | 75 | 72 | 85 | 70 | 86 | 72 | 79 | 68 | 82 | 75 | 72 | 85 | 70 | 86 | 72 | 79 | 68   | 82            | 75  | 72 |
| Union.....            | 93 | 71 | 90 | 69 | 81 | 70 | 83 | 68 | 86 | 71 | 83 | 68 | 86 | 71 | 83 | 68 | 86 | 71 | 83 | 68 | 86 | 71 | 83 | 68 | 86 | 71 | 83 | 68 | 86 | 71   | 83            | 68  | 86 |
| Wadley.....           | 94 | 72 | 90 | 68 | 88 | 72 | 88 | 71 | 90 | 68 | 88 | 72 | 88 | 71 | 90 | 68 | 88 | 72 | 88 | 71 | 90 | 68 | 88 | 72 | 88 | 71 | 90 | 68 | 88 | 72   | 88            | 71  | 90 |
| Waltham.....          | 92 | 71 | 89 | 71 | 85 | 70 | 84 | 70 | 87 | 67 | 83 | 66 | 88 | 71 | 84 | 67 | 83 | 66 | 88 | 71 | 84 | 67 | 83 | 66 | 88 | 71 | 84 | 67 | 83 | 66   | 88            | 71  | 84 |
| Wilmington, N. C..... | 91 | 74 | 89 | 73 | 86 | 75 | 84 | 73 | 83 | 72 | 76 | 70 | 75 | 68 | 82 | 67 | 88 | 72 | 84 | 70 | 75 | 68 | 82 | 67 | 88 | 72 | 84 | 70 | 75 | 68   | 82            | 67  | 88 |
| Windsor.....          | 95 | 74 | 93 | 73 | 90 | 72 | 90 | 74 | 83 | 71 | 82 | 70 | 84 | 71 | 82 | 70 | 84 | 71 | 82 | 70 | 84 | 71 | 82 | 70 | 84 | 71 | 82 | 70 | 84 | 71   | 82            | 70  | 84 |
| Yantisville.....      | 94 | 72 | 90 | 68 | 87 | 71 | 87 | 70 | 89 | 64 | 87 | 70 | 87 | 66 | 80 | 70 | 89 | 64 | 87 | 70 | 87 | 66 | 80 | 70 | 89 | 64 | 87 | 70 | 87 | 66   | 80            | 70  | 89 |
| Yorkville.....        | 93 | 71 | 89 | 71 | 86 | 70 | 84 | 69 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71   | 83            | 68  | 87 |
| Yorkville.....        | 93 | 71 | 89 | 71 | 86 | 70 | 84 | 69 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71   | 83            | 68  | 87 |
| Yorkville.....        | 93 | 71 | 89 | 71 | 86 | 70 | 84 | 69 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71   | 83            | 68  | 87 |
| Yorkville.....        | 93 | 71 | 89 | 71 | 86 | 70 | 84 | 69 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71   | 83            | 68  | 87 |
| Yorkville.....        | 93 | 71 | 89 | 71 | 86 | 70 | 84 | 69 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71   | 83            | 68  | 87 |
| Yorkville.....        | 93 | 71 | 89 | 71 | 86 | 70 | 84 | 69 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71   | 83            | 68  | 87 |
| Yorkville.....        | 93 | 71 | 89 | 71 | 86 | 70 | 84 | 69 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71 | 83 | 68 | 87 | 71</ |               |     |    |

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR JULY 1900



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JULY, 1906.

| STATIONS.        | Day of Month. |      |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      | Total. |       |  |
|------------------|---------------|------|------|------|------|------|------|------|-----|-----|-----|-----|------|------|-----|------|------|------|------|------|------|------|------|-----|------|------|-----|------|-----|------|------|--------|-------|--|
|                  | 1             | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9   | 10  | 11  | 12  | 13   | 14   | 15  | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24  | 25   | 26   | 27  | 28   | 29  | 30   | 31   |        |       |  |
| Aiken            |               |      | .25  | 1.95 | .05  | .20  | .30  | .10  |     |     |     | .10 | .05  |      |     | 1.14 | .10  | .10  |      | .15  |      | .20  |      |     |      |      |     | 3.90 | .10 | .65  | .20  | .55    | 10.09 |  |
| Allendale        |               |      |      | 1.97 | .32  |      | .10  | 1.23 |     |     |     |     |      |      |     |      |      | .90  | .43  |      |      | .40  |      |     |      |      |     |      |     |      |      |        | 6.25  |  |
| Anderson         |               |      | 1.40 | .07  |      |      | .06  | 2.22 |     |     | .05 |     |      | .28  | .10 |      | .61  | .13  |      |      | .55  |      | .11  | .08 |      |      |     |      |     | .41  | 1.83 | .83    | 8.75  |  |
| Augusta, Ga.     | .24           | .04  | .96  | .02  |      | 1.79 | T.   | 1.58 | .01 |     | .03 |     |      | 3.68 | .10 | T.   | .18  | 1.41 |      |      |      | 2.73 | .22  |     |      |      |     |      |     | .31  | .64  | .06    | 14.00 |  |
| Barksdale        |               |      |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Batesburg        |               | .74  | 1.34 |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Beaufort         |               | .05  | .31  | .03  |      | .58  |      | T.   |     | .47 |     |     | 1.61 | T.   |     | 1.27 | T.   | .42  | .14  |      |      |      | .61  | .22 |      | 1.06 |     | 1.24 |     | .33  | 1.04 |        | 9.49  |  |
| Bennettsville    | T.            | .22  | .03  | .29  |      | .03  |      | .05  |     |     | .02 | .05 |      | .17  | .01 | .04  | .13  |      | .30  |      |      | .05  | 1.56 |     | .58  |      |     |      | .51 | .81  | 1.15 |        | 8.50  |  |
| Blackville       | .26           | .11  | .10  |      | .90  |      |      | .80  |     |     |     |     |      |      |     |      |      | .60  |      |      |      | 1.35 | .51  | .05 |      |      |     | 1.49 | .02 | 1.28 | .04  | 6.78   |       |  |
| Blairs           |               |      |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Bowman           |               | .22  | .24  | 1.15 | 1.07 | .52  |      | .04  | .08 | .03 | .02 | .52 |      | .34  |     |      | .60  |      | .50  | .10  |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Calhoun Falls    |               | .28  | .54  |      |      |      |      | .97  |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Camden           |               | .30  | .18  | .40  | 1.02 |      |      |      |     |     | .36 | .12 |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Catawba          | 2.00          | 1.54 | 2.04 |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Chappells        | 2.32          |      |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Charleston       |               | .21  | .17  | .17  | .05  | T.   |      | 1.12 |     |     | .75 | T.  | T.   | T.   |     |      | 1.54 |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Charlotte, N. C. | T.            | .11  | T.   |      |      | T.   | .25  | T.   |     |     | .13 | T.  | .91  | 2.08 | T.  |      | .01  |      |      |      | T.   | .05  | 1.79 | .18 | .91  |      |     |      |     |      |      |        |       |  |
| Cheraw(1)        | .10           | .91  | .01  | .89  | .07  |      |      | .30  | .26 |     |     | T.  | T.   | .06  | .14 |      | 1.84 | .37  | .97  | .05  | T.   | .36  | .02  | .01 | .01  |      |     |      |     |      |      |        |       |  |
| Cheraw(2)        | .10           | .96  |      | .94  | .12  |      |      | .04  |     |     |     |     |      |      |     |      | .29  | .19  | .92  | .33  | .50  | .04  | .10  | .81 | .35  |      |     |      |     |      |      |        |       |  |
| Clark's Hill     | T.            | T.   |      | T.   |      |      |      |      |     |     |     |     |      |      |     |      | .36  | T.   | .03  | .86  | .12  | .45  | .05  | .88 | .40  |      |     |      |     |      |      |        |       |  |
| Clemson College  |               | .87  |      | 1.08 |      | .04  | 1.35 |      |     |     | .60 | T.  |      | .48  | .20 | .28  | T.   | .45  |      |      |      | .73  | .45  |     | .03  |      |     |      |     |      |      |        |       |  |
| Columbia         | 1.12          |      | .22  | .15  | .63  | T.   | T.   | .10  |     |     | .03 | .29 |      | .52  | T.  | .01  | .50  | .01  | .01  |      |      | 1.25 | .44  |     | .62  |      |     |      |     |      |      |        |       |  |
| Conway           |               | .50  |      |      |      | .80  | T.   |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Darlington       | .03           | .23  | .01  | .57  |      | .11  |      | T.   | T.  |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Dillon           | .32           | .10  | .43  | .52  | T.   | .05  |      | T.   |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Due West         | T.            | 2.95 | .28  |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Edisto           |               | 1.01 | .70  | 1.04 | .93  |      |      | 1.89 | .55 |     |     | .20 |      | .12  |     | 1.02 |      | .65  | .28  |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Edinburgh        |               | .35  |      | .50  |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Enoree           |               |      |      | 1.30 |      | .28  |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Florence         | .06           | .80  | .05  | .05  | .03  | .08  | .18  |      | .02 |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Gaffney          |               |      |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Georgetown       |               |      | .80  | T.   |      | .45  | T.   |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Greenville       |               |      | .28  |      |      |      |      | .17  | .93 | .32 |     | .07 |      | .04  | .40 | .41  | .05  | 1.85 | .27  | 1.75 | 1.26 | .82  | .68  | .70 | 1.08 | T.   | .68 | T.   | T.  | 1.20 |      |        |       |  |
| Greenwood        | 1.50          | .40  |      | .19  |      |      |      | 1.20 |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Heath Spring     | .22           | .37  | .01  |      |      |      |      | .05  |     |     | .02 | T.  |      | .18  | .15 |      | .30  |      | 2.30 | .10  | .30  |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Kingstree(1)     | 1.95          |      | .20  | .01  | 1.43 | .62  |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Kingstree(2)     | 2.60          |      | .18  |      | 1.12 | .57  |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Liberty          |               | .30  | .10  | T.   | T.   | 1.20 | .05  | .08  | T.  |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Little Mountain  |               | .06  | .02  | .02  | .03  | .20  | T.   |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |
| Lockhart         |               |      |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |      |      |     |      |     |      |      |        |       |  |

T. indicates trace, less than .01 inch.



52.05  
IN SC

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR AUGUST, 1906.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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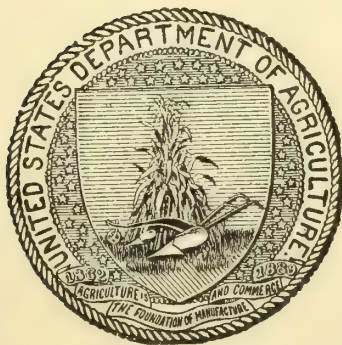
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

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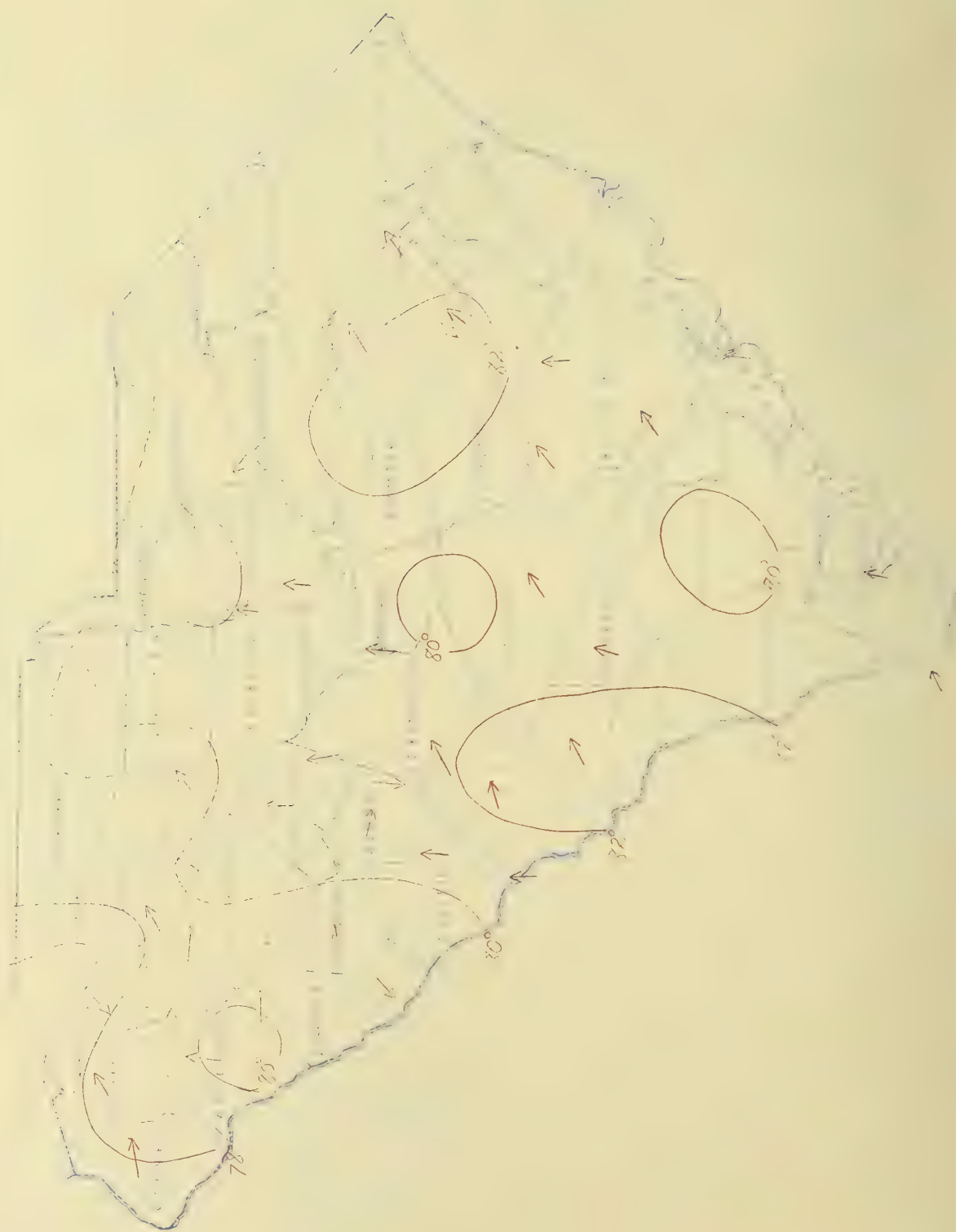
J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE  
SEPTEMBER 25, 1906.

THE GROUND SURFACE AND SUBSURFACE





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.

**SOUTH CAROLINA SECTION,**  
J. W. BAUER, Section Director.

VOL. IX. COLUMBIA, S. C., AUGUST, 1906. No. 8.

**GENERAL SUMMARY.**

The weather during the present month was not materially different from the usual August weather, except that the temperature was slightly higher and more equable than usual. There was no excessive heat, and the highest maximum temperature has been exceeded in every year since 1894, except in 1898 and 1901, and the State minimum temperature has been lower in every year except in 1900 and in 1903 when it was the same. The warmest part of the month was from the 7th to the 12th, inclusive, while the coolest parts were on the 1st and 2nd, and from the 21st to the 23rd, inclusive. The range of the minimum temperature at the different stations was unusually small; the greatest range in the minimum temperatures at any station was 15° at Trenton, while the least range was only 4° at Bennettsville and at Greenville, and the average range was only 7°, causing a remarkable uniformity in the night temperatures. It is also noteworthy that the minimum temperatures differed but little over all parts of the State, although the extreme western portion had somewhat lower minimum temperatures than the central and eastern portions. The range of the daily maximum temperatures was also smaller than usual at nearly every station, and they averaged nearly as high in the western portion of the State as in the central and eastern portions. The mean temperature for the State was equal to the third highest August mean of record; the years 1899 and 1900 were warmer, and 1903 had the same mean temperature.

The precipitation was not unusually heavy, although the average number of days with rain has been greater only in 1898, and was the same in 1901, both of which years had nearly a half more rainfall than the current August. There were frequent showers in all parts of the State from the 1st to the 4th, inclusive, after which there was very little rain until the 10th, but from that date to the end of the month there were daily showers in some part of the State. The rainfall was quite well distributed, although there were three comparatively small areas with excessive precipitation; the most northerly area comprised Cherokee, Spartanburg, and York counties; the most southerly area included parts of Aiken, Lexington, Barnwell, and Orangeburg counties, while the third and smallest area included the eastern part of Chesterfield and the western part of Marlboro counties. The State average rainfall has been greater in six years, and has been less in six years, since 1894. More thunderstorms were noted this month than in either June or July, but there were fewer hailstorms and high winds in connection with the thunderstorms.

The average number of clear days was equal to the smallest number of record, and was the same as in the year 1901, while the average number of partly cloudy days was the

second largest of record, there having been four more in 1900; the number of cloudy days was about equal to the August average.

**Temperature.**

The mean temperature for August, 1906, was 80.6°, which is 1.2° above normal. The highest local mean was 83.5° at Aiken, the lowest was 75.4° at Greenville. The monthly extremes of temperature were a maximum of 100° at Walhalla on the 7th and at Blackman and Bowman on the 10th, and a minimum of 60° at Trenton on the 1st, making the State range 40°. The greatest local monthly range was 36° at Trenton and Walhalla, the least was 20° at Georgetown. The mean of the daily maximum temperatures was 89.3°, and of the daily minimum temperatures was 71.9°, making the average daily range 17.4°.

**Precipitation.**

The average precipitation was 6.62 inches, which is 0.63 of an inch above normal. The greatest local monthly amount was 12.45 inches at Spartanburg, the least was 2.00 inches at Allendale. The greatest 24-hour fall was 5.19 inches at Bowman on the 26th-27th. The average number of days with .01 of inch, or more, of rain was 15, ranging from 5 at Allendale to 23 at Cheraw.

**EXCESSIVE PRECIPITATION.**—At Batesburg on the 1st, 3.53 inches in 2 hours; at Blackville on the 7th, 3.00 inches in 2 hours and 35 minutes, and on the 23rd, 3.25 inches in 1 hour and 30 minutes; at Blairs on the 2nd, 2.66 inches in about 12 hours; at Bowman on the 26th-27th, 5.19 inches in about 8 hours; at Charleston on the 2nd, 3.41 inches in 24 hours; at Cheraw (1) on the 27th, 1.45 inches in 1 hour, and at Cheraw (2) on the 27th, 1.84 inches in 40 minutes; at Clarks Hill on the 14th, 3.43 inches in about 12 hours; at Columbia on the 12th, 1.85 inches in 1 hour; at Georgetown on the 2nd, 2.65 inches in 24 hours; at Greenwood on the 23rd, 2.10 inches in about 1 hour; at Newberry on the 28th-29th, 2.64 inches in 24 hours; at Santuc on the 28th-29th, 2.77 inches in 24 hours; at Seivern on the 1st, 2.86 inches in 24 hours, and on the 13th, 4.08 inches in 24 hours; at Smiths Mills on the 19th, 2.10 inches in 1 hour and 30 minutes; at Spartanburg on the 10th, 2.10 inches in 1 hour, and on the 30th, 3.00 inches in 1 hour and 30 minutes, and on the 30th, 5.15 inches in 24 hours; at Stateburg on the 22nd, 2.68 inches in 24 hours; at Trenton on the 1st, 3.71 inches in 24 hours; at Walterboro on the 26th, 1.12 inches in 1 hour.

**Wind.**

The prevailing direction of the wind was from the southwest at 19 stations, from the south at 17 stations, from the west at 6 stations, from the southeast at 5 stations, from the northeast at 3 stations, and from the north at 1 station.

**Sunshine and Cloudiness.**

The average number of clear days was 7, of partly cloudy days was 17, and of cloudy days was 7.

**MISCELLANEOUS PHENOMENA.**

**PARHELIA.**—At Santuc on the 6th.

**LUNAR HALOS.**—At Charleston on the 1st, 3rd.

**SOLAR HALOS.**—At Charleston on the 6th; at Stateburg on the 23rd.

**DENSE FOGS.**—Dense fogs of one hour, or longer duration were recorded as follows: At Blackville on the 20th, 33rd, 25th; at Camden on the 4th, 15th, 22nd; at Columbia on the



4th, 27th; at Heath Springs on the 16th, 18th, 20th, 22nd, 23rd, 24th, 25th, 26th; at Liberty on the 6th; at Newberry on the 22nd, 23rd; at Saluda on the 2nd, 3rd, 4th, 5th, 17th, 18th, 19th, 23rd; at Santuc on the 20th, 22nd, 23rd, 24th, 31st; at Seivern on the 18th, 19th, 20th, 21st, 22nd; at Society Hill on the 3rd, 4th, 17th, 18th; at Stateburg on the 26th; at Winthrop College on the 22nd, 24th, 25th, 31st; at Yorkville on the 2nd, 22nd, 24th, 25th, 31st.

**THUNDERSTORMS.**—Two hundred and forty-one thunderstorms were reported from twenty-one stations on thirty dates, as follows: Beaufort, 1, 2, 9, 10, 11, 15, 16, 18, 20, 21, 23, 24, 25, 26, 27, 28, 29, 31; Batesburg, 2, 18, 23, 27; Blackville, 4, 5, 7, 9, 17, 22, 23; Bowman, 4, 7, 12, 13, 14, 15, 16, 17, 23, 31; Charleston, 1, 2, 4, 9, 10, 15, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 31; Columbia, 6, 7, 11, 12, 14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 25, 27, 31; Georgetown, 3; Liberty, 1, 4, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31; Newberry, 1, 4, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 28, 29, 30; Saluda, 1, 2, 13, 14, 16, 17, 18, 19, 20, 30, 31; Santuc, 10, 12, 13, 15, 18, 19, 22, 28, 30; Seivern, 1, 2, 7, 13, 15, 16, 22, 23; Society Hill, 2, 10, 20, 22, 26, 27, 31; Spartanburg, 16, 30; Stateburg, 8, 14, 16, 19, 21, 22, 24, 25, 26; Summerville, 3, 4, 15, 16, 17, 18, 19, 20, 21, 23, 25, 27, 28; Trenton, 1, 2, 3, 4, 12, 13, 14, 16, 17, 20, 21, 22, 23, 24, 25, 28, 29, 30, 31; Trial, 4, 11, 12, 19, 20, 21, 22, 28; Winthrop College, 1, 2, 22; Yorkville, 3, 13, 19, 20, 21, 28, 30.

## OBSERVERS' REMARKS.

**BARKSDALE.**—The latter half of the month was very rainy with scarcely any sunshine.—J. T. Garrett. **BATESBURG.**—There were twenty days with rain during the month, which is an unprecedented number for any one month at this station.—E. J. Hite. **BEAUFORT.**—The mean temperature was below normal and the total precipitation was above normal. The temperature was equable, and showers fell at frequent intervals throughout the month.—Sidney M. Benton. **BENNETTSVILLE.**—The month was unusually cloudy, there having been but three clear days, with rain on thirteen days.—C. S. McCall. **BOWMAN.**—The month was remarkable for the number of days with rain, the amount of cloudiness that occurred, and for an exceedingly heavy rainfall on the 26th, when in the course of somewhat over two hours 5.19 inches fell.—B. O. Evans. **CAMDEN.**—Persistent showery weather prevailed from the 10th to the end of the month; there were no high winds.—J. B. Mickle. **GREENVILLE.**—The weather was cloudy during the greater part of the month, and rain fell on sixteen days.—Mrs. S. A. Crittenden. **HEATH SPRINGS.**—There was an unusual amount of cloudy weather, and rain fell on 21 days, but there were no destructive storms.—J. A. Weaner. **LIBERTY.**—The month was damp, with frequent rains, but with warm sunshine between showers that stimulated growth of vegetation.—Jno. T. Boggs. **SANTUC.**—The month was very wet; trace, or more, of rain fell on 22 days, and some rain fell in sight of the station nearly every day. Mosquitoes and other insect pests became very numerous and troublesome.—E. W. Jeter. **SOCIETY HILL.**—During the summer of 1817 rain fell every day in Charleston, with such regularity that gentlemen would make appointments in the afternoons, "after the shower." The frequent showers of the current summer have a precedent. Charleston had an epidemic of yellow fever in 1817.—Maj. J. J. Lucas. **SUMMERVILLE.**—There was a slight earthquake tremor about 1:20 a. m. on the 5th.—Miss E. H. Gadsden. **TRENTON.**—The accumulated precipitation since January 1st is 9.40 inches more than the

average for the first eight months of the year. The excess in moisture and in cloudiness have been injurious.—C. A. Long. **YORKVILLE.**—The month was abnormally wet and the weather was generally unfavorable.—J. R. Schorb.

## BAROMETER AND WIND TABLE FOR AUGUST, 1906.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.01      | 30.25    | 6     | 29.81   | 15    | 3.633           | 4.9             | 37                | e.         | 22    |
| Charleston. ....       | 30.03      | 30.27    | 6     | 29.84   | 23    | 6.577           | 9.0             | 27                | s.         | 28    |
| Charlotte, N. C. ....  | 30.03      | 30.24    | 6     | 29.85   | 26    | 3.312           | 4.5             | 28                | nw.        | 10    |
| Columbia. ....         | 30.01      | 30.26    | 6     | 29.83   | 27    | 3.606           | 4.8             | 24                | ne.        | 12    |
| Savannah, Ga. ....     | 30.02      | 30.26    | 6     | 29.83   | 23    | 4.727           | 6.4             | 26                | sw.        | 28    |
| Wilmington, N. C. .... | 30.00      | 30.23    | 3     | 29.85   | 26    | 4.868           | 6.5             | 25                | s.         | 11    |
| Averages. ....         | 30.02      | 30.27    | 6     | 29.81   | 15    | 4.451           | 6.0             | 28                | nw.        | 10    |

## RIVER GAGE READINGS, AUGUST, 1906.

| Stations.           | Mean. | Highest. | Date. | Lowest. | Date. |
|---------------------|-------|----------|-------|---------|-------|
| Blairs. ....        | 4.1   | 14.0     | 3     | 1.5     | 11    |
| Calhoun Falls. .... | 4.1   | 6.6      | 2     | 3.0     | *10   |
| Camden. ....        | 14.8  | 27.0     | 31    | 7.3     | *12   |
| Catawba. ....       | 5.2   | 15.4     | 31    | 2.3     | 11    |
| Chappells. ....     | 6.7   | 16.0     | 3     | 3.0     | 13    |
| Cheraw. ....        | 12.7  | 27.6     | 31    | 3.0     | *11   |
| Columbia. ....      | 4.8   | 17.2     | 3     | 1.5     | 12    |
| Edisto. ....        | 5.0   | 5.6      | *3    | 4.2     | 1     |
| Effingham. ....     | 7.6   | 11.0     | *4    | 5.2     | 23    |
| Kingstree. ....     | 7.9   | 10.1     | 4     | 6.2     | *16   |
| Mt. Holly. ....     | 3.1   | 9.0      | 30    | 1.8     | *9    |
| Pelzer. ....        | 3.9   | 6.3      | 30    | 3.2     | 20    |
| Rimini. ....        | 13.0  | 15.6     | 7     | 10.5    | 13    |
| St. Stephens. ....  | 8.9   | 10.0     | 11    | 8.3     | *19   |
| Smiths Mills. ....  | 12.9  | 14.3     | *9    | 10.0    | 19    |

\* On other dates also.

## AUGUST WEATHER.

## Temperature, Rainy Days and Wind.

| Year.      | Mean Temp. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. |
|------------|------------|---------------|--------------|-------------|-------------------|
| 1894. .... | 77.9       | 102           | 55           | 11          | sw.               |
| 1895. .... | 79.4       | 101           | 55           | 13          | sw.               |
| 1896. .... | 80.4       | 105           | 52           | 7           | sw.               |
| 1897. .... | 78.0       | 102           | 57           | 9           | sw.               |
| 1898. .... | 78.7       | 99            | 57           | 18          | sw.               |
| 1899. .... | 81.2       | 103           | 59           | 10          | sw.               |
| 1900. .... | 83.0       | 106           | 60           | 5           | sw.               |
| 1901. .... | 78.6       | 97            | 57           | 15          | s.                |
| 1902. .... | 78.6       | 104           | 55           | 12          | sw.               |
| 1903. .... | 80.6       | 105           | 60           | 12          | sw.               |
| 1904. .... | 77.6       | 102           | 54           | 14          | sw.               |
| 1905. .... | 77.9       | 107           | 46           | 11          | s.-sw.            |
| 1906. .... | 80.6       | 100           | 60           | 15          | sw.               |

## Precipitation.

| Year.      | State Average. | Greatest Monthly. | Place.        | Least Monthly. | Place.           |
|------------|----------------|-------------------|---------------|----------------|------------------|
| 1894. .... | 7.28           | 12.26             | Society Hill. | 0.88           | Simpsonville.    |
| 1895. .... | 7.95           | 12.00             | Holland.      | 3.82           | Yemassee.        |
| 1896. .... | 4.14           | 10.21             | Kingstree.    | 1.02           | Clemson College. |
| 1897. .... | 5.16           | 9.93              | Trenton.      | 1.27           | Winnboro.        |
| 1898. .... | 9.81           | 24.68             | Port Royal.   | 4.28           | Gaffney.         |
| 1899. .... | 6.26           | 17.94             | Pinopolis.    | 1.33           | Cheraw.          |
| 1900. .... | 2.13           | 5.55              | Yemassee.     | 0.27           | Cheraw.          |
| 1901. .... | 9.01           | 19.32             | Liberty.      | 3.23           | Beaufort.        |
| 1902. .... | 5.07           | 8.68              | Batesburg.    | 1.20           | Spartanburg.     |
| 1903. .... | 7.15           | 12.83             | St. Stephens. | 3.05           | Clarks Hill.     |
| 1904. .... | 8.47           | 13.43             | Effingham.    | 3.92           | Aiken.           |
| 1905. .... | 5.69           | 11.87             | Santuc.       | 2.30           | Beaufort.        |
| 1906. .... | 6.62           | 12.45             | Spartanburg.  | 2.00           | Allendale.       |



## CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST, 1906.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       |                       | Precipitation—in inches. |                            |                       |                              |                    | Sky.               |                            |                       |                               |                         | Observers. |
|---------------------------------------|---------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|--------------------------|----------------------------|-----------------------|------------------------------|--------------------|--------------------|----------------------------|-----------------------|-------------------------------|-------------------------|------------|
|                                       |               |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total.                   | Departure from the normal. | Greatest in 24 hours. | Total snow fall, (unmelted.) | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. | Prevailing direction of wind. |                         |            |
| Aiken.                                | Aiken.        | 565             | 22                      | 83.5                               | +4.3                       | 96       | *5    | 70      | 23    | 22                    | 6.12                     | -0.52                      | 1.10                  | 0                            | 15                 | 10                 | 15                         | 6                     | sw.                           | C. F. McGahan, M. D.    |            |
| Alhondale.                            | Barnwell.     | 186             | 18                      | 82.6                               | +2.7                       | 98       | 10    | 72      | *1    | 21                    | 1.30                     | -0.28                      | 0.30                  | 0                            | 5                  | 23                 | 0                          | 8                     | sw.                           | A. R. Hiersell.         |            |
| Anderson.                             | Anderson.     | 764             | 5                       | 80.2                               | +3.0                       | 94       | *9    | 67      | *3    | 25                    | 4.52                     | -1.30                      | 1.05                  | 0                            | 12                 | 15                 | 2                          | 14                    | sw.                           | H. H. Russ.             |            |
| Augusta, Ga.                          | Richmond.     | 134             | 35                      | 81.4                               | +2.0                       | 95       | 10    | 68      | 2     | 21                    | 6.16                     | +0.98                      | 3.28                  | 0                            | 17                 | 5                  | 20                         | 6                     | sw.                           | Weather Bureau.         |            |
| Barksdale.                            | Laurens.      | 680             | 5                       | 80.4                               | .....                      | 95       | *10   | 68      | 23    | 24                    | .....                    | .....                      | 1.00                  | 0                            | 0                  | 8                  | 20                         | 0                     | w.                            | J. T. Garrett.          |            |
| Batesburg.                            | Lexington.    | 656             | 18                      | 80.2                               | +0.2                       | 96       | *9    | 68      | 2     | 20                    | 8.56                     | +2.95                      | 3.53                  | 0                            | 16                 | 11                 | 12                         | 8                     | h.                            | E. J. Hite.             |            |
| Beaufort.                             | Beaufort.     | 20              | 20                      | 81.2                               | -0.5                       | 96       | 10    | 71      | *2    | 20                    | 7.24                     | +0.55                      | 1.98                  | 0                            | 18                 | 12                 | 16                         | 3                     | s.                            | S. M. Benton.           |            |
| Bennettsville.                        | Marlboro.     | 151             | 5                       | 80.7                               | .....                      | 96       | 8     | 71      | *3    | 23                    | .....                    | .....                      | 0.63                  | 0                            | 0                  | 2                  | 20                         | 3                     | s.                            | C. S. McCall.           |            |
| Blackville.                           | Barnwell.     | 296             | 18                      | 83.4                               | .....                      | 100      | 10    | 69      | 1     | 27                    | 10.83                    | +4.84                      | 3.25                  | 0                            | 17                 | 19                 | 8                          | 4                     | sw.                           | G. D. C. Lange.         |            |
| Blairs.                               | Fairfield.    | 293             | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                    | .....                      | 2.66                  | 0                            | 14                 | 5                  | 16                         | 10                    | s.                            | T. S. McMeekin.         |            |
| Bowman.                               | Orangeburg.   | 160             | 5                       | 81.2                               | .....                      | 100      | 10    | 67      | 5     | 28                    | 10.00                    | .....                      | 5.19                  | 0                            | 19                 | 10                 | 21                         | 0                     | sw.                           | B. O. Evans.            |            |
| Calhoun Falls.                        | Abbeville.    | 508             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                    | .....                      | 2.08                  | 0                            | 14                 | 16                 | 1                          | 14                    | ne.                           | P. J. Pfeiffer.         |            |
| Camden (1).                           | Kershaw.      | .....           | .....                   | 80.6                               | .....                      | 96       | 9     | 69      | *22   | 24                    | 4.92                     | .....                      | 0.86                  | 0                            | 17                 | 11                 | 13                         | 4                     | s.                            | J. B. Mickle.           |            |
| Camden (2).                           | Kershaw.      | 222             | 40                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 7.10                     | +0.20                      | 1.76                  | 0                            | 12                 | 11                 | 10                         | 10                    | s.                            | W. C. Brown.            |            |
| Castanba.                             | York.         | .....           | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 6.10                     | .....                      | 1.66                  | 0                            | 13                 | 12                 | 3                          | 16                    | s.                            | James Y. Brice.         |            |
| Chappells.                            | Newberry.     | 402             | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                    | .....                      | 1.20                  | 0                            | 10                 | 12                 | 8                          | 11                    | sw.                           | W. F. Glenn.            |            |
| Charleston.                           | Charleston.   | 48              | 37                      | 81.7                               | +1.2                       | 97       | 10    | 72      | 2     | 18                    | 7.87                     | +0.25                      | 3.41                  | 0                            | 18                 | 5                  | 21                         | 5                     | s.                            | Weather Bureau.         |            |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 28                      | 79.0                               | +2.9                       | 91       | 9     | 68      | 1     | 21                    | 8.56                     | +3.23                      | 2.56                  | 0                            | 23                 | 2                  | 17                         | 12                    | sw.                           | Weather Bureau.         |            |
| Cheraw (1).                           | Chesterfield. | 144             | 18                      | 79.9                               | +0.8                       | 92       | *8    | 70      | *1    | 19                    | 10.36                    | +4.98                      | 1.60                  | 0                            | 21                 | 6                  | 4                          | 21                    | s.                            | W. R. Godfrey.          |            |
| Cheraw (2).                           | .....         | 144             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 10.39                    | +4.64                      | 1.90                  | 0                            | 23                 | 7                  | 13                         | 11                    | s.                            | Jno. H. Powe.           |            |
| Clarks Hill.                          | Edgefield.    | 500             | 4                       | 79.7                               | .....                      | 99       | 2     | 65      | *1    | 24                    | 8.00                     | .....                      | 3.43                  | 0                            | 10                 | 0                  | 7                          | 24                    | .....                         | Wm. S. Middleton.       |            |
| Clemson College.                      | Oconee.       | 850             | 15                      | 79.0                               | -1.1                       | 92       | 12    | 66      | *1    | 21                    | 7.35                     | +2.43                      | 1.76                  | 0                            | 13                 | .....              | .....                      | .....                 | .....                         | Jno. N. Hook.           |            |
| Columbia.                             | Richland.     | 351             | 19                      | 81.1                               | +1.3                       | 95       | 10    | 69      | 1     | 20                    | 6.85                     | 0.00                       | 1.96                  | 0                            | 18                 | 4                  | 11                         | 16                    | s.                            | Central Office.         |            |
| Conway.                               | Ilorry.       | 25              | 14                      | 81.3                               | .....                      | 99       | 10    | 69      | 5     | 23                    | 9.00                     | +2.79                      | 1.90                  | 0                            | 18                 | 22                 | 1                          | 8                     | s.                            | Miss M. G. Quattlebaum. |            |
| Darlington.                           | Darlington.   | 175             | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                    | .....                      | .....                 | 0                            | .....              | .....              | .....                      | .....                 | .....                         | Miss F. G. McIver.      |            |
| Dillon.                               | Marion.       | 100             | 2                       | .....                              | .....                      | 98       | 10    | 69      | 12    | 22                    | 2.43                     | .....                      | 0.50                  | 0                            | 17                 | .....              | .....                      | .....                 | .....                         | A. E. Rowell.           |            |
| Due West.                             | Abbeville.    | 730             | 5                       | 79.4                               | .....                      | 94       | 10    | 67      | 2     | 22                    | 7.23                     | .....                      | 1.90                  | 0                            | 13                 | 13                 | 7                          | 11                    | w.                            | Rev. O. Y. Bonner.      |            |
| Edisto.                               | Bamberg.      | 127             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 11.67                    | +6.42                      | 1.96                  | 0                            | 13                 | 13                 | 3                          | 15                    | w.                            | Mrs. M. Thompson.       |            |
| Edinham.                              | Florence.     | 106             | 14                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 7.40                     | +1.66                      | 1.50                  | 0                            | 10                 | 16                 | 0                          | 15                    | sw.                           | H. B. McCall.           |            |
| Enoree.                               | Spartanburg.  | 987             | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 5.85                     | .....                      | 1.70                  | 0                            | 10                 | 19                 | 0                          | 12                    | sw.                           | J. W. King.             |            |
| Florence.                             | Florence.     | 136             | 18                      | 81.8                               | +1.3                       | 98       | 9     | 69      | 5     | 25                    | 5.76                     | -0.06                      | 2.25                  | 0                            | 13                 | 13                 | 6                          | 12                    | se.                           | H. K. Gilbert.          |            |
| Gaffney.                              | Cherokee.     | 893             | 10                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                    | .....                      | .....                 | 0                            | .....              | .....              | .....                      | .....                 | .....                         | B. F. Camp.             |            |
| Georgetown.                           | Georgetown.   | 12              | 13                      | 80.4                               | -0.4                       | 92       | *9    | 72      | *1    | 14                    | 6.72                     | +0.72                      | 2.65                  | 0                            | 14                 | 11                 | 20                         | 0                     | sw.                           | Reid Whitford.          |            |
| Greenville.                           | Greenville.   | 989             | 14                      | 75.4                               | -1.7                       | 90       | *9    | 62      | *1    | 24                    | 4.23                     | -1.33                      | 0.75                  | 0                            | 16                 | 12                 | 8                          | 11                    | ne.                           | Mrs. S. A. Crittenden.  |            |
| Greenwood.                            | Greenwood.    | 671             | 18                      | 79.3                               | +0.1                       | 94       | 12    | 66      | *1    | 24                    | 6.32                     | +0.80                      | 2.10                  | 0                            | 14                 | 15                 | 0                          | 16                    | w.                            | M. M. Calhoun.          |            |
| Heath Springs.                        | Laurens.      | 568             | 5                       | 82.1                               | .....                      | 98       | 11    | 68      | *1    | 26                    | 5.33                     | .....                      | 1.51                  | 0                            | 21                 | 8                  | 17                         | 6                     | se.                           | J. A. Weaver.           |            |
| Kingstree (1).                        | Williamsburg. | 54              | 18                      | 82.0                               | +2.0                       | 95       | 11    | 73      | 2     | 17                    | 4.35                     | -1.73                      | 1.38                  | 0                            | 18                 | 20                 | 7                          | 4                     | sw.                           | J. A. Scott.            |            |
| Kingstree (2).                        | .....         | 54              | 12                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 3.54                     | -2.84                      | 1.35                  | 0                            | 9                  | 13                 | 8                          | 10                    | ne.                           | A. O. Matthews.         |            |
| Liberty.                              | Pickens.      | 900             | 12                      | 79.2                               | +1.8                       | 94       | 12    | 65      | *1    | 24                    | 7.56                     | -0.27                      | 1.40                  | 0                            | 16                 | 12                 | 17                         | 2                     | sw.                           | Jno. T. Boggs.          |            |
| Little Mountain.                      | Newberry.     | 630             | 13                      | 80.2                               | 0.0                        | 97       | 10    | 65      | 2     | 25                    | 7.50                     | +2.36                      | 1.87                  | 0                            | 20                 | 6                  | 18                         | 7                     | s.                            | John M. Sease, M. D.    |            |
| Lockhart.                             | Union.        | .....           | .....                   | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 7.27                     | +1.97                      | 2.64                  | 0                            | 17                 | 3                  | 15                         | 13                    | s.                            | R. W. Boney.            |            |
| Lowberry.                             | Newberry.     | 502             | 2                       | 81.4                               | +2.5                       | 98       | 10    | 67      | 2     | 26                    | 7.27                     | +1.97                      | 2.64                  | 0                            | 17                 | 3                  | 15                         | 13                    | w.                            | W. G. Peterson.         |            |
| Pelzer.                               | Anderson.     | 873             | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 8.12                     | .....                      | 1.52                  | 0                            | 11                 | 14                 | 1                          | 16                    | .....                         | John M. Ward.           |            |
| Pinopolis.                            | Berkeley.     | 54              | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                    | .....                      | .....                 | 0                            | .....              | .....              | .....                      | .....                 | .....                         | E. P. Ravenel.          |            |
| St. George.                           | Dorchester.   | 109             | 18                      | 82.4                               | +2.7                       | 96       | 9     | 71      | 21    | 21                    | 5.84                     | -0.56                      | 1.75                  | 0                            | 11                 | 20                 | 0                          | 11                    | .....                         | G. T. Lewis.            |            |
| St. Matthews.                         | Orangeburg.   | 269             | 18                      | 79.4                               | -1.0                       | 92       | 10    | 69      | 1     | 17                    | 6.26                     | -0.06                      | 2.30                  | 0                            | 10                 | 19                 | 0                          | 12                    | .....                         | J. S. Wainmaker.        |            |
| St. Stephen.                          | Berkeley.     | 73              | 14                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 4.23                     | -3.59                      | 1.31                  | 0                            | 14                 | 19                 | 0                          | 12                    | s.                            | C. T. Shuler.           |            |
| Saluda.                               | Saunder.      | 536             | 5                       | 81.2                               | .....                      | 97       | 12    | 67      | 1     | 27                    | 7.98                     | .....                      | 1.65                  | 0                            | 20                 | 15                 | 9                          | 7                     | w.                            | Alvin Etheridge.        |            |
| Santee.                               | Union.        | 512             | 13                      | 79.7                               | +1.2                       | 95       | *9    | 65      | *1    | 25                    | 8.37                     | +3.28                      | 2.77                  | 0                            | 17                 | 5                  | 18                         | 8                     | sw.                           | E. W. Jeter.            |            |
| Savannah, Ga.                         | Chatham.      | 71              | 37                      | 81.6                               | +1.3                       | 96       | 10    | 70      | 1     | 21                    | 5.06                     | -2.68                      | 1.08                  | 0                            | 9                  | 4                  | 17                         | 10                    | sw.                           | Weather Bureau.         |            |
| Selma.                                | Aiken.        | 482             | 5                       | 81.4                               | +1.1                       | 97       | *10   | 66      | 1     | 28                    | 11.69                    | +5.25                      | 4.08                  | 0                            | 15                 | 2                  | 9                          | 17                    | sw.                           | Geo. C. Gunter.         |            |
| Smiths Mills.                         | Williamsburg. | 62              | 11                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 7.35                     | -0.68                      | 2.10                  | 0                            | 10                 | 22                 | 0                          | 9                     | sw.                           | H. van Keuren.          |            |
| Society Hill.                         | Darlington.   | 192             | 15                      | 80.6                               | +2.2                       | 93       | 9     | 70      | 31    | 18                    | 5.19                     | -0.43                      | 1.22                  | 0                            | 19                 | 11                 | 15                         | 5                     | sw.                           | J. J. Lucas.            |            |
| Spartanburg.                          | Spartanburg.  | 875             | 15                      | 79.8                               | +0.8                       | 95       | *10   | 65      | *1    | 25                    | 12.45                    | +6.92                      | 5.15                  | 0                            | 14                 | 13                 | 3                          | 15                    | se.                           | F. P. Robinson.         |            |
| Stateburg.                            | Sumter.       | 500             | 29                      | 80.4                               | +2.7                       | 95       | 9     | 70      | 21    | 20                    | 10.90                    | -5.77                      | 2.68                  | 0                            | 17                 | 1                  | 18                         | 11                    | sw.                           | W. W. Anderson, M. D.   |            |
| Summerville.                          | Dorchester.   | 75              | 9                       | 81.1                               | +1.1                       | 98       | 10    | 68      | 1     | 25                    | 6.26                     | -2.32                      | 1.96                  | 0                            | 20                 | 4                  | 19                         | 4                     | sw.                           | Miss E. H. Gadsden.     |            |
| Sumter.                               | Sumter.       | 169             | 5                       | 82.4                               | .....                      | 99       | 10    | 68      | 1     | 27                    | 3.95                     | .....                      | 0.50                  | 0                            | 14                 | 12                 | 19                         | 0                     | s.                            | H. A. Moses.            |            |
| Trenton.                              | Edgefield.    | 620             | 13                      | 80.4                               | 0.0                        | 96       | 10    | 68      | 1     | 22                    | 6.89                     | -0.01                      | 3.71                  | 0                            | 8                  | 2                  | 27                         | 2                     | sw.                           | C. A. Long.             |            |
| Trials.                               | Berkeley.     | 85              | 20                      | 80.6                               | +2.9                       | 97       | *9    | 68      | 1     | 24                    | 5.21                     | -2.41                      | 1.13                  | 0                            | 16                 | 8                  | 14                         | 9                     | sw.                           | Eisel Guillard.         |            |
| Walhalla.                             | Oconee.       | 1061            | 15                      | 78.8                               | +2.1                       | 100      | 7     | 64      | *1    | 31                    | 7.57                     | +1.65                      | 1.34                  | 0                            | 14                 | 0                  | 30                         | 1                     | w.                            | Miss Jessie Douthit.    |            |
| Walterboro.                           | Colleton.     | 69              | 3                       | 79.8                               | .....                      | 96       | 10    | 67      | 1     | 22                    | 4.02                     | .....                      | 1.12                  | 0                            | 13                 | 10                 | 19                         | 2                     | sw.                           | J. A. Westerberg.       |            |
| Wilmington, N. C.                     | New Hanover.  | 52              | 37                      | 80.6                               | +2.4                       | 96       | 10    | 70      | 20    | 19                    | 4.64                     | -2.83                      | 0.84                  | 0                            | 20                 | 1                  | 21                         | 9                     | sw.                           | Weather Bureau.         |            |
| Winnsboro.                            | Fairfield.    | 545             | 17                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 6.95                     | +2.57                      | 1.34                  | 0                            | 18                 | 15                 | 13                         | 3                     | sw.                           | John W. Seigler.        |            |
| Winthrop College.                     | York.         | 690             | 7                       | 80.0                               | +2.0                       | 94       | *5    | 68      | *1    | 24                    | 4.25                     | -2.52                      | 1.42                  | 0                            | 14                 | 22                 | 3                          | 6                     | sw.                           | E. R. Rivers.           |            |
| Yemassee.                             | Beaufort.     | 23              | 11                      | 80.0                               | -1.6                       | 94       | 10    | 70      | *1    | 19                    | 4.25                     | -2.52                      | 1.42                  | 0                            | 14                 | 22                 | 3                          | 6                     | sw.                           | J. G. Hutson.           |            |
| Yorkville.                            | York.         | 680             | 18                      | 80.6                               | +2.7                       | 96       | *10   | 69      | *1    | 23                    | 11.66                    | +6.70                      | 1.60                  | 0                            | 17                 | 2                  | 14                         | 15                    | sw.                           | J. R. Schorb.           |            |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 89.6                               | +1.2                       | 100      | *7    | 60      | 1     | 28                    | 6.62                     | +0.63                      | 5.19                  | 0                            | 15                 | 7                  | 17                         | 7                     | sw.                           |                         |            |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. § Exposed not standard.  
 \* On other dates also a indicates 1 day missing, b, 2 days, etc. c The state of sky at 8 a. m. not used in averages.  
 † Minimum thermometer not standard.

## ERRATA.

The following changes should be made in the July, 1906, number of the Monthly Reports: On page 53, the mean temperature at Batesburg, 77.4, should be 77.8; at Newberry the mean temperature, 79.2, should be 79.3; at St. Matthews the mean temperature, 78.8, should be 77.2; on page 54, at Batesburg the mean maximum temperature, 88.0, should be 88.6;

at Newberry the mean maximum temperature, 89.2, should be 89.3, and the mean minimum temperature, 69.2, should be 69.3; at St. Matthews the mean maximum temperature, 87.2, should be 84.0; on page 56, at Batesburg, the precipitation on the 16th, 1.27, should be .27 on the 15th; on pages 53 and 56, at Heath Springs, the total precipitation, 4.54, should be 5.03; at Walhalla the total precipitation, 13.47, should be 13.87; at Walterboro the total precipitation, 10.65, should be 11.65.



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

AUGUST, 1906.

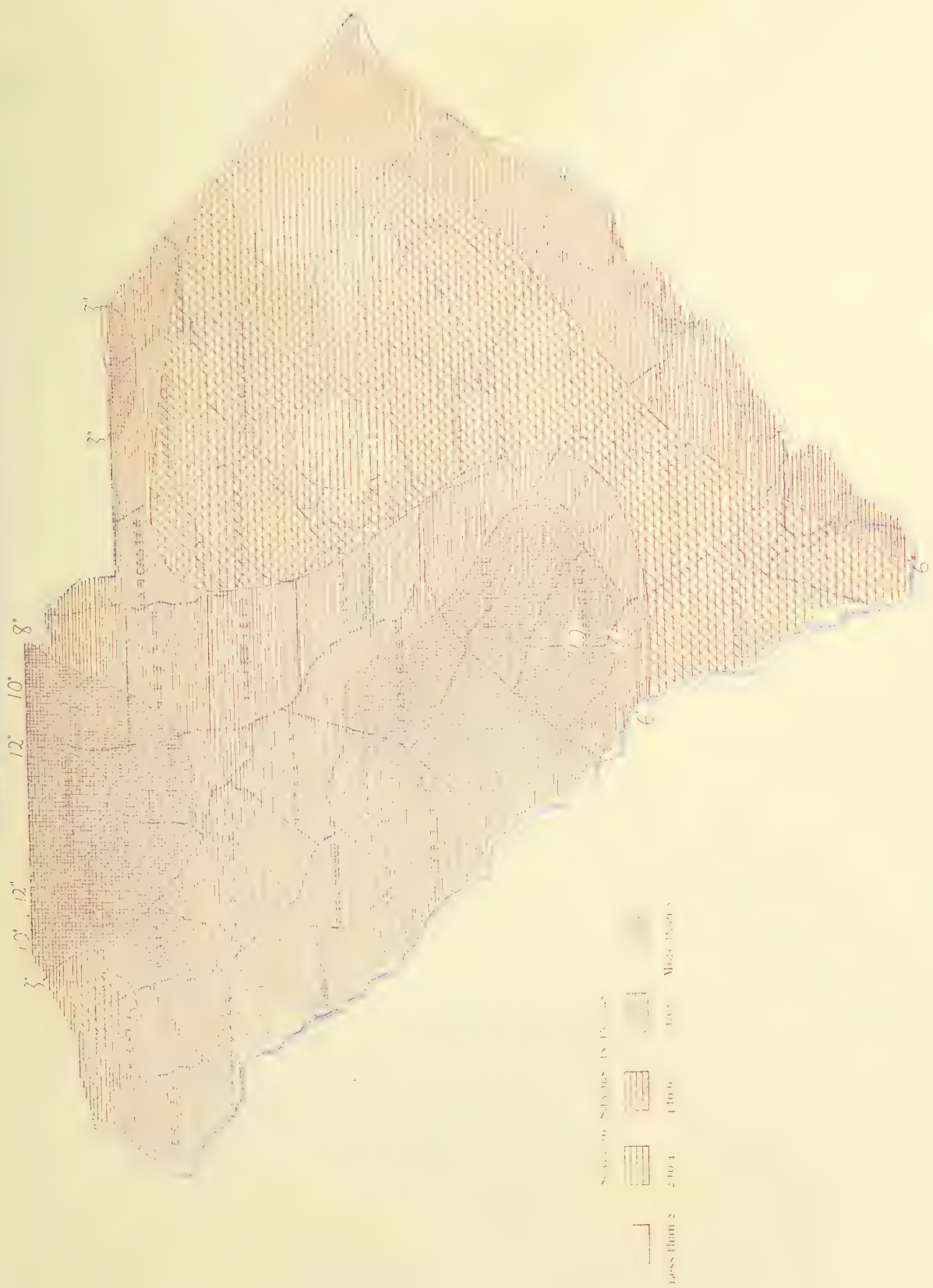
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING AUGUST, 1906.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



MAP OF PRECIPITATION FOR AUGUST 1900



## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1906.

| STATIONS.         | Day of Month. |      |      |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | Total. |       |
|-------------------|---------------|------|------|------|-----|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|-----|-----|--------|-------|
|                   | 1             | 2    | 3    | 4    | 5   | 6    | 7   | 8   | 9   | 10  | 11  | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20  | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30  | 31  |        |       |
| Aiken             |               | .20  | .78  |      |     |      |     |     |     |     |     |      |      | .15  | .10  | .50  | .75  | .50  |      | .27 | .15  | .20  | .12  | 1.05 | .20  | 1.10 | .05  |      |      |     |     | 6.12   |       |
| Allendale         |               |      | .82  |      |     |      |     |     |     |     |     |      |      | .61  | .08  |      |      |      | .25  | .45 |      |      | .30  | .20  | .30  | .30  |      | .20  |      |     |     | 1.30   |       |
| Anderson          |               |      |      | .42  |     |      | T.  | T.  |     |     |     |      |      | .12  | .24  | .05  | .32  | .01  |      | .02 | .02  | 1.26 | .02  | .32  | .06  | .01  | .01  | .07  | .33  | T.  | .05 | 4.52   |       |
| Augusta, Ga.      | 3.28          | T.   |      |      |     |      |     |     |     |     |     |      |      | T.   | .12  | .24  | .05  | .32  | .01  |     |      |      |      |      |      |      |      |      |      |     |     | 6.16   |       |
| Barksdale         | .30           | 1.00 | .80  | .05  |     |      |     |     |     |     |     |      |      | .20  | .30  |      |      |      |      |     |      | T.   | .30  | .20  | .30  | .20  | .30  | .20  | .50  | .20 |     |        |       |
| Batesburg         | .19           | 3.53 | .39  |      |     |      |     |     |     |     |     |      |      | .11  | .09  | .06  | .02  | .64  |      |     | T.   | .14  | .10  | .01  | .54  | .04  | .20  | .63  | .91  | .03 | T.  | .04    |       |
| Beaufort          |               |      | .09  | .03  | .02 |      |     |     | .01 |     |     |      | .73  | .03  | .14  | .66  |      |      |      |     | .30  | .10  | .01  | .96  | .73  | .88  | .23  | .27  | 1.98 | T.  |     | 8.56   |       |
| Bennettsville     |               | .63  |      |      |     |      |     | .04 |     |     |     |      |      |      | .06  | .13  | .15  |      |      |     | .30  | .10  | .01  | .96  | .73  | .88  | .23  | .27  | 1.98 | T.  |     | 7.24   |       |
| Blackville        | .01           |      | .02  | .58  |     | 3.00 | .05 | .24 |     |     |     | .02  |      | .01  | .02  | .05  | .25  | .01  |      |     | .14  | .34  | .46  | .15  | .20  | .55  |      |      |      | .31 | .35 |        |       |
| Blairs            |               | 2.66 |      | .24  |     |      |     |     |     |     |     |      |      | .70  | .42  | 1.30 | .32  |      |      |     |      |      | 3.25 | .29  | .68  |      |      |      | .90  |     |     | 10.83  |       |
| Bowman            | T.            | .02  | .04  | .06  | .03 | T.   | .05 |     |     |     |     | 2.04 | .08  | .46  | .11  | .14  | T.   | .44  | T.   | .95 |      | .14  | .24  | .48  | .12  | .16  | 4.05 | 1.14 | .26  |     | .76 | .50    | 7.35  |
| Calhoun Falls     |               | .62  |      | .13  | .97 |      |     |     |     |     | .11 | .42  | .39  |      |      |      | .18  | .37  |      | .14 | .24  | .48  | .12  | .16  | 4.05 | 1.14 | .26  |      | .52  | T.  | .41 | .35    | 8.08  |
| Camden (1)        |               |      |      |      |     |      |     |     |     | .24 | .62 | .13  |      | .02  | .26  | .20  | .33  | .23  | T.   | .06 | .06  | .86  | .07  | .05  | .61  | .26  |      |      |      |     |     | 4.92   |       |
| Camden (2)        |               |      |      |      |     |      | .30 |     |     |     | .20 | .12  | 1.76 |      | .24  |      |      | .32  | .62  | .14 | .42  |      | .30  | .18  |      | .52  |      |      |      |     |     | 5.12   |       |
| Catawba           | .42           | .24  | .10  |      |     |      |     |     |     |     |     |      |      | .26  | 1.66 |      |      |      | .20  |     | 1.50 |      |      |      |      |      |      |      |      |     |     | 7.10   |       |
| Chappells         | T.            | .46  |      |      |     |      |     |     |     |     |     |      |      | T.   | .60  | T.   | 1.20 | 1.20 | .34  | T.  |      |      |      |      |      |      | .50  | T.   |      | .30 | .38 | 5.85   |       |
| Charleston        | .04           | 3.41 | .03  | .05  |     |      |     |     |     |     |     |      |      | T.   | .24  | .44  | .03  | T.   | .07  | .01 | .03  | .14  | T.   | .94  | .05  | .12  | .57  | .04  | 1.68 | .01 |     |        | 6.10  |
| Charlotte, N. C.  | .05           | .13  | .26  | T.   |     |      |     |     |     |     |     |      |      | T.   | .02  | .01  | .06  | .02  | .01  | .04 | .01  | .18  | .02  | .03  | .14  | .05  | .14  | .67  | .08  |     | .01 | 7.87   |       |
| Cheraw(1)         | .01           | .10  | 1.60 | .01  | T.  |      |     | .96 |     |     | .32 | .45  | .42  | 1.02 | .01  | 1.62 | .35  | .02  | .01  | .04 | .01  | .18  | .02  | .03  | .14  | .05  | .14  | .67  | .08  |     | .01 | 8.56   |       |
| Cheraw(2)         | .02           | .04  | 1.68 |      | T.  |      |     | .92 |     |     |     | .44  | 1.57 | .99  |      | .50  | .86  | .06  | .13  | T.  | T.   | T.   | .26  | .14  | .60  | .04  | .19  | 1.45 | .02  | .33 |     | .10    | 10.36 |
| Clark's Hill      | T.            | 1.89 | T.   |      |     |      |     |     |     |     |     |      |      | 3.43 |      |      |      |      |      |     | .17  | .07  |      | .65  | .12  | .35  | .43  | T.   | .19  | T.  | .70 | 8.00   |       |
| Clemson College   |               | .14  |      | 1.76 |     |      |     |     |     |     |     |      |      | .38  | .66  | .69  |      |      | 1.59 |     | .17  | .07  |      | .65  | .12  | .35  | .43  | T.   | .19  | T.  | .70 | 8.00   |       |
| Columbia          |               | .08  |      | T.   |     | .05  | .02 |     |     |     | .16 | 1.96 |      | 1.48 |      |      | T.   | .10  |      | .13 | .30  | .06  | .23  | .53  | .02  | 1.45 | .04  | .07  | .16  |     | .93 | .13    | 7.35  |
| Conway            | T.            | .38  | 1.14 | .18  | .41 |      |     |     |     |     |     | .05  | T.   |      | .25  | .10  | 1.90 |      |      |     | 1.40 |      | .10  | .85  | .07  | .16  | .28  | .70  | .38  | .25 |     | .40    | 9.00  |
| Darlington        |               | .06  | .20  | .07  | .07 |      |     | .30 |     |     |     | .15  | .15  | T.   | .32  |      |      |      |      | .01 | .01  | .02  | .06  | T.   | .50  | .19  | .01  | T.   | .24  |     | .07 | 2.43   |       |
| Dillon            |               | .32  |      | .30  |     |      |     |     |     |     |     |      |      | .15  | 1.32 |      | .24  | .30  | .78  |     |      |      |      |      |      |      |      |      |      |     |     | 7.23   |       |
| Due West          |               |      |      | .96  |     |      |     |     |     |     |     |      |      | .53  |      | .25  | 1.02 | .94  | .62  |     | 1.96 |      |      |      |      |      |      |      |      |     |     | 11.67  |       |
| Edisto            |               | 1.50 |      | T.   |     |      |     |     |     |     |     |      |      |      | .25  | .75  | .25  |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 5.85   |       |
| Edinburgh         |               | .90  |      | .40  | .30 |      |     |     |     |     |     |      |      | T.   | .50  |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 5.75   |       |
| Enoree            |               | .55  | .05  | T.   |     |      | .10 |     |     |     | .40 |      | .15  | .05  |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 7.40   |       |
| Florence          |               |      |      |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 5.85   |       |
| Gaffney           |               |      |      |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 5.75   |       |
| Georgetown        |               | 2.65 | 1.10 |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 7.40   |       |
| Greenville        | .31           | .10  |      | .08  | .05 |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 5.75   |       |
| Greenwood         | .51           | .03  |      | .20  |     |      |     |     |     |     |     |      |      | .30  | .36  |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 6.72   |       |
| Heath Spring      | .03           | .50  | .12  |      |     | .92  |     |     |     |     |     |      |      | .17  |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 4.23   |       |
| Kingstree(1)      | .20           | .14  | .10  | .42  |     |      |     |     |     | .02 |     |      | .04  | .06  | .01  | .06  | .01  | 1.51 | .11  | .01 |      | .60  | T.   | .12  | .39  | .02  | .08  | .25  | .19  | .28 |     | 5.33   |       |
| Kingstree(2)      | .30           | .12  | .10  |      |     |      |     |     |     |     | .17 | .01  | .05  | .22  | .16  | 1.38 |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 4.35   |       |
| Liberty           | .05           | .06  |      | .55  |     | T.   |     |     |     | .10 |     |      | .80  | .82  | .58  |      | .05  | .06  | .80  | T.  |      |      |      |      |      |      |      |      |      |     |     | 3.54   |       |
| Little Mountain   | .04           | .78  |      |      |     |      |     |     |     |     |     |      | 1.47 | .04  | 1.87 | .54  | .17  | .17  | .07  | .18 | .06  | .04  | .33  | .04  | .09  | .73  | .05  | T.   | .64  | .12 |     | 7.56   |       |
| Lockhart          |               |      |      |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 7.50   |       |
| Newberry          | 1.38          | .02  |      | .02  |     |      |     |     |     |     |     |      | .05  | .07  | T.   | T.   | .10  | .07  | .20  | .05 | .50  |      | 1.24 |      | .17  | .30  | .21  |      | 2.52 | .32 | .05 | 7.27   |       |
| Pelzer            | 1.30          | 1.14 |      |      |     |      |     |     |     |     |     |      |      | 1.52 |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 8.12   |       |
| Pinopolis         |               |      |      |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     |        |       |
| St. George        |               |      | .03  |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     |        |       |
| St. Matthews      |               |      | .75  |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     |        |       |
| St. Stephen       | .03           |      |      | .80  | .30 |      |     |     |     | .65 |     |      |      | 2.30 |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     |        | 5.84  |
| Saluda            | .56           | .34  |      |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 6.26   |       |
| Santuc            | .46           | 1.23 | .27  | .04  |     |      |     |     |     |     |     |      |      | .04  | .38  |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 4.23   |       |
| Savannah, Ga.     |               | T.   | .04  | T.   |     |      |     |     |     |     | .05 |      |      | .34  | T.   | .16  | T.   | .54  | 1.64 | .03 | T.   | .08  |      |      |      |      |      |      |      |     |     | 7.98   |       |
| Severn            | 2.86          | .12  |      |      |     |      |     |     |     |     |     |      |      | .09  | T.   | .35  | .20  | .21  | T.   |     |      |      |      |      |      |      |      |      |      |     |     | 8.37   |       |
| Smiths Mills      |               | .90  | 1.20 | .40  |     |      |     |     |     |     |     |      |      | 4.08 |      | .35  | .20  | .21  | T.   |     |      |      |      |      |      |      |      |      |      |     |     | 5.06   |       |
| Society Hill      | .02           | 1.22 | .27  |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 11.69  |       |
| Spartanburg       | .17           | 1.45 | .03  |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 7.35   |       |
| Stateburg         | .03           |      | .06  |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 5.19   |       |
| Summerville       | .02           | .02  | .05  | .96  |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 12.45  |       |
| Sumter            |               |      | .25  |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 10.90  |       |
| Trenton           |               | 3.71 |      |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 6.26   |       |
| Trial             |               |      | .04  | .07  |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 3.95   |       |
| Walhalla          | .17           |      | .32  | T.   | .22 |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 6.89   |       |
| Walterboro        |               |      | .22  | .04  |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     | 5.21   |       |
| Wilmington, N. C. | .69           | .15  | .26  |      |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |     |     |        |       |

T. indicates trace, less than .01 inch.



357.05  
1280  
U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR SEPTEMBER, 1906.

## SOUTH CAROLINA SECTION

OF THE

# CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

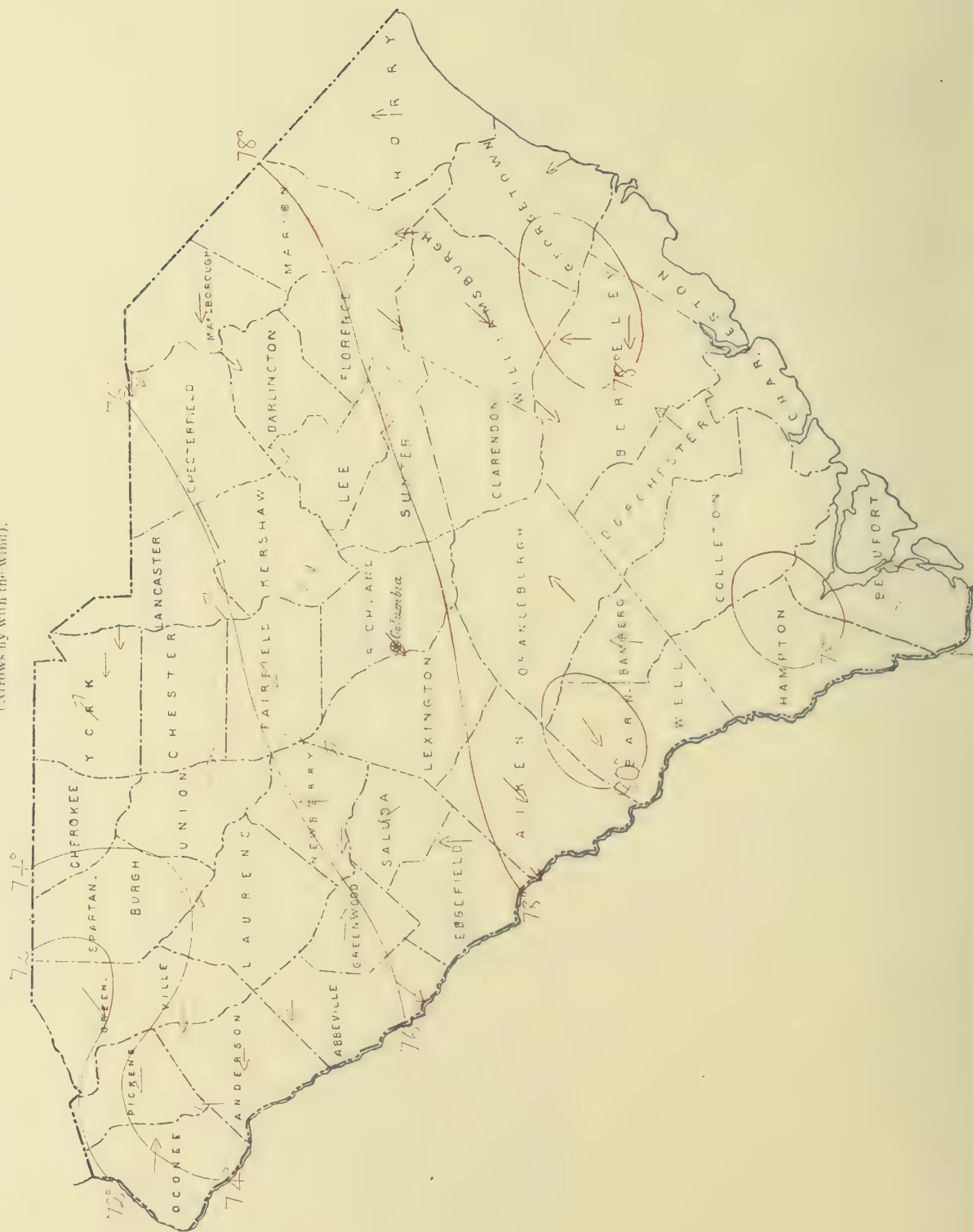


RALEIGH, N. C.  
WEATHER BUREAU OFFICE

OCTOBER 25, 1906.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR SEPTEMBER, 1906.

(Arrows fly with the wind).





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. IX. COLUMBIA, S. C., SEPTEMBER, 1906.

No. 9.

## GENERAL SUMMARY.

The weather during September was abnormal in a number of its conditions, and was especially noteworthy in having been the warmest September in the last thirteen years, owing to both high daily maximum and high daily minimum temperatures, but more particularly the latter. There were no cool periods and there was no extreme heat, but there was an unusually even temperature from the first to the last of the month. This was illustrated by the fact that at eight stations both the highest and the lowest temperature for the month occurred on the same date, at six stations on the 9th, and at one station for each date on the 8th and 11th. The lowest minimum temperature was  $3^{\circ}$  higher than the previous record; the mean of the daily minimum temperatures was  $1.1^{\circ}$  higher than the previous highest; the mean of the daily maximum temperatures was within  $0.3^{\circ}$  as high as the previous highest; and the monthly mean was  $0.9^{\circ}$  higher than the previous highest monthly mean temperature.

It was also the second wettest September of record, the year 1894 alone having had a greater average rainfall. So also it was second in the average number of days with rain, there having been 12 days in 1894 and 9 in the current month. The thirteen-year September average is 5 days with rain. There were fewer clear days and more partly cloudy days than in any previous September, while the number of cloudy days was above the average number.

The first half of the month was warm and generally dry, with the exception of light rains on the 3rd-4th and the 11th-13th. A severe storm passed northwestward over the State on the 17th, attended by high winds that attained gale velocity along the coast and in the central counties, and by heavy precipitation in many places, especially in the east central counties, where amounts of more than four inches were measured, and in the extreme western counties, where the amounts ranged from two to three inches. The storm entered the State on the coast in the vicinity of Georgetown, where an aneroid barometer read 28.72 inches about noon. The center of the storm reached the vicinity of Columbia at 7 p. m., and the storm attained its greatest violence about midnight in the extreme northwestern part of the State. The storm decreased in violence as it progressed into the interior, but damaging winds occurred over the southern half of the whole State; on the northern side of the storm's center the winds were not so high and the damage done was comparatively insignificant.

The last decade had unsettled and threatening weather, with frequent showers, over the whole State, and with heavy precipitation in the extreme western counties and particularly in the mountain districts, where the monthly amounts were largely in excess of the normal.

## Temperature.

The mean temperature for September, 1906, was  $78.6^{\circ}$ , which is  $2.9^{\circ}$  above normal. The highest local mean was  $80.5^{\circ}$  at Blackville, the lowest  $71.9^{\circ}$  at Greenville. The monthly extremes of temperature were a maximum of  $98^{\circ}$  at Blackville on the 2nd, 6th, and 11th, and a minimum of  $55^{\circ}$  at Greenville on the 9th, making the State range  $43^{\circ}$ . The greatest local monthly range was  $37^{\circ}$  at Sumter, the least was  $22^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $87.7^{\circ}$ , and of the daily minimum temperatures was  $68.3^{\circ}$ , making the average daily range  $19.4^{\circ}$ .

## Precipitation.

The average precipitation was 4.85 inches, which is 0.80 of an inch above normal. The greatest local monthly amount was 14.37 inches at Walhalla, the least was 1.43 inches at Edisto. The greatest 24-hour rainfall was 4.45 inches at Trial on the 17th. The average number of days with 0.01 of an inch, or more, precipitation was 9, ranging from 3 at Winnsboro to 14 days at Spartanburg and Walhalla.

**EXCESSIVE PRECIPITATION.**—At Calhoun Falls on the 1st, 3.76 inches in 24 hours; at Camden on the 18th, 2.00 inches in 2 hours; at Chappels on the 17th, 2.64 inches in 5 hours; at Greenville on the 25th, 2.90 inches in 24 hours; at Kingstree on the 17th-18th, 3.10 inches in 24 hours; at Kingstree (2) on the 17th-18th; 2.95 inches in 24 hours; at Little Mountain on the 17th-18th, 2.46 inches in 17 hours and 30 minutes; at Pinopolis on the 17th, 4.00 inches in 24 hours; at Smith's Mills on the 17th-18th, 3.00 inches in 22 hours; at Stateburg on the 17th, 2.50 inches in about 12 hours; at Trial on the 17th, 4.45 inches in about 15 hours; at Trenton on the 17th-18th, 3.20 inches in 16 hours and 20 minutes; at Walhalla on the 18th, 2.84 inches in 24 hours.

## Wind.

The prevailing direction of the wind was from the northeast at 18 stations, from the east and south at 10 stations each, from the southwest at 5 stations, from the west at 3 stations, from the southeast at 2 stations, and from the north at 1 station.

**HIGH WINDS.**—High winds occurred at Beaufort, Bowman, Charleston, Columbia, Effingham, Georgetown, Kingstree, Newberry, Pinopolis, Sumter, Trial, Walhalla, Winthrop College on the 17th; at Blackville, Liberty, Saluda, Stateburg on the 17th, 18th; at Camden on the 3rd, 17th; at Society Hill on the 15th.

## Sunshine and Cloudiness.

The average number of clear days was 10, of partly cloudy days was 12, and of cloudy days was 8. The 13-year average for September is 15 clear days, 9 partly cloudy days, and 6 cloudy days.

## ERRATA.

The following corrections should be made in the August, 1906, Monthly Report: On page 61, at Clemson College, the highest temperature,  $92^{\circ}$  on the 12th, should be  $93^{\circ}$  on the 9th; at Seivern, the lowest temperature  $66^{\circ}$  on the 1st, should be  $66^{\circ}$  on the 1st and other dates. On page 62, at Winthrop College, the mean maximum temperature,  $89.3^{\circ}$ , should be  $89.2^{\circ}$ . On pages 61 and 64, at Walhalla, the total precipitation, 7.57, should be 7.67. On page 64, at Florence, the total precipitation, 5.75, should be 5.76.



## OBSERVERS' REMARKS.

BATESBURG.—A severe storm of wind and rain passed over the station on the 17th, during which time 2.80 inches of rain fell. The last week was cloudy with low temperature and frequent rains.—E. J. Hite. BEAUFORT.—The mean temperature was 1.8° above normal; the precipitation was 2.81 inches less than the normal amount. There were frequent rains but they were confined to small areas and they were generally light.—S. M. Benton. BENNETTSVILLE.—The weather was generally clear during the first half of the month; the latter half was cloudy with too much rain. The sunshine was below the average.—C. S. McCall. BOWMAN.—The first half of the month was hot and dry; the latter half was showery and windy. A damaging storm prevailed on the 17th. The high winds began from the east, shifting by the north, and west, to the south. Many forest trees were blown down.—B. O. Evans. CAMDEN.—The weather was generally warm and dry during the first half of the month; the latter half had unsettled and showery weather. The storm of the 17th was the most severe that has occurred in many years.—J. B. Mickle. CONWAY.—The rainfall on the 17th is estimated, as the rain gage was blown down by the storm that prevailed all day. Small houses, chimneys, sheds, trees, fences, etc., were blown down, and the winds were more destructive on the seashore.—Miss Marjory G. Quattlebaum. GREENVILLE.—Although there were fifteen clear mornings, the sky was generally overcast during the middle of the day throughout the month, with almost daily rains after the 10th.—Mrs. S. A. Crittenden. HEATH SPRINGS.—The weather was generally unfavorable after the 11th. Rain fell on 11 days, with a total rainfall much above the September average. The mean temperature was also above normal.—J. A. Weaner. LIBERTY.—A heavy thunderstorm prevailed from 11 a. m. to 3 p. m. on the 4th. The month was very rainy and the winds and rain caused considerable damage.—John T. Boggs. NEWBERRY.—The gale on the 17th did much damage to forest trees and to telegraph and telephone wires.—W. G. Peterson. SALUDA.—High winds prevailed from 12 noon of the 17th to 2 a. m. of the 18th that did much damage to forest trees, etc.—Alvin Etheridge. SANTUC.—The prevailing weather was partly cloudy to cloudy after the 10th of the month, and there were numerous light rains. The wind storm of the 17th-18th was very severe.—E. W. Jeter. SOCIETY HILL.—High winds prevailed on the 15th. A lunar halo on the 29th showed prismatic colors very beautifully.—J. J. Lucas. STATEBURG.—The storm of the 17th-18th was very destructive to forest and fruit trees.—Dr. W. W. Anderson. SUMMERVILLE.—High winds began on the 16th that increased on the 17th into a storm of considerable severity. Many trees and fences were blown down. The height of the storm was between the hours of 12 noon and 4 p. m.—Miss E. H. Gadsden.

## MISCELLANEOUS PHENOMENA.

PARHELION.—At Liberty on the 29th.

SOLAR HALOS.—At Charleston on the 27th, 29th.

LUNAR HALOS.—At Beaufort on the 28th; at Blackville on the 1st, 27th, 28th; at Bowman on the 25th, 26th, 27th, 28th; at Camden on the 4th, 27th; at Charleston on the 23rd, 25th, 26th, 27th, 28th; at Columbia on the 26th, 27th, 28th, 29th; at Greenville on the 29th; at Little Mountain on the 27th, 29th; at Santuc on the 26th, 27th.

DENSE FOGS.—At Blackville on the 22nd, 30th; at Bowman on the 11th, 12th, 20th, 21st, 22nd, 23rd; at Camden on the 11th, 13th, 20th; at Columbia on the 11th, 13th; at Heath Spring on the 2nd, 13th; at Liberty on the 5th, 13th, 21st,

24th, 30th; at Saluda and Santuc on the 13th; at Society Hill on the 11th, 12th; at Winthrop College on the 13th, 24th; at Yorkville on the 20th.

THUNDERSTORMS.—Seventy-three thunderstorms were reported from eighteen stations on nineteen dates during September, as follows: From Beaufort on the 1st, 2nd, 4th, 6th, 13th, 19th, 20th, 23rd; from Bowman on the 5th; from Camden on the 3rd, 19th, 23rd; from Charleston on the 1st, 4th, 5th, 13th, 14th, 19th, 23rd; from Cheraw on the 24th, 25th; from Columbia on the 4th, 12th, 19th, 24th; from Georgetown on the 14th, 23rd; from Greenville on the 11th; from Liberty on the 3rd, 4th, 5th, 11th, 12th, 13th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 29th; from Newberry on the 2nd, 3rd, 12th, 19th, 23rd, 24th; from Saluda on the 3rd, 12th, 23rd; from Santuc on the 3rd, 12th, 20th, 23rd; from Society Hill on the 18th, 23rd; from Stateburg on the 21st; from Summerville on the 1st, 4th, 13th, 19th, 20th; from Trenton on the 1st, 3rd, 4th, 11th, 12th, 22nd, 23rd; from Trial on the 4th; and from Yorkville on the 3rd, 12th.

## BAROMETER AND WIND TABLE FOR SEPTEMBER, 1906.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.04      | 30.17    | 16    | 29.60   | 17    | 4.197           | 5.8             | 32                | se.        | 1     |
| Charleston.       | 30.04      | 30.17    | 19    | 29.44   | 17    | 7.827           | 10.9            | 48                | sw.        | 17    |
| Charlotte, N. C.  | 30.09      | 30.29    | 29    | 29.90   | *3    | 4.725           | 6.6             | 32                | ne.        | 17    |
| Columbia.         | 30.04      | 30.21    | 25    | 29.53   | 17    | 4.889           | 6.8             | 44                | ne.        | 17    |
| Savannah, Ga.     | 30.02      | 30.15    | 21    | 29.78   | 17    | 4.944           | 6.9             | 27                | e.         | 25    |
| Wilmington, N. C. | 30.03      | 30.22    | 25    | 29.62   | 17    | 5.452           | 7.6             | 50                | ne.        | 17    |
| Averages.         | 30.05      | 30.29    | 29    | 29.44   | 17    | 4.672           | 7.4             | 50                | ne.        | 17    |

## RIVER GAGE READINGS, SEPTEMBER, 1906.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 3.3   | 8.2      | 1     | 1.1     | 18    |
| Calhoun Falls    | 4.8   | 9.8      | 20    | 3.0     | *10   |
| Camden           | 13.1  | 28.6     | 1     | 8.5     | 10    |
| Catawba          | 4.3   | 12.2     | 1     | 2.4     | 13    |
| Chappells        | 7.4   | 12.4     | 1     | 4.3     | 12    |
| Cheraw           | 9.1   | 31.8     | 1     | 3.9     | 14    |
| Columbia         | 3.8   | 12.4     | 1     | 1.4     | 17    |
| Edisto           | 3.9   | 4.9      | 1     | 2.6     | *17   |
| Effingham        | 7.4   | 10.0     | *1    | 4.3     | 18    |
| Kingstree        | 7.0   | 10.0     | 2     | 3.3     | *17   |
| Mt. Holly, N. C. | 3.0   | 6.0      | 1     | 2.0     | 13    |
| Pelzer           | 4.6   | 6.7      | 20    | 3.4     | 8     |
| Rimini           | 13.1  | 16.7     | 5     | 10.6    | *13   |
| St. Stephens     | 9.1   | 10.7     | *8    | 8.5     | 17    |
| Smiths Mills     | 12.2  | 16.0     | *9    | 8.6     | 27    |

\* On other dates also.

The station at Seivern, Aiken county, has been permanently discontinued. A station was first established in that vicinity in May, 1894, at Shaw's Fork, and was removed to Seivern, about five miles distant, in February, 1904. The records from that vicinity show some peculiar climatic features, especially in the matter of low minimum temperatures. The lowest minimum temperature recorded at any station in South Carolina since the establishment of the climatic service of the Weather Bureau occurred at Shaw's Fork on February 14th, 1899, when a reading of eleven below zero was noted. The lowest minimum temperature that has been noted in May was recorded on the 10th of that month in 1906 at Seivern, when a reading of 30° was recorded, with killing frost, this being the latest killing frost of record in this State.



CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1900.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       | Sky.                     |                    |                     |                    | Observers. |     |                         |
|---------------------------------------|---------------|-----------------|-------------------------|-----------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------------|------------|-----|-------------------------|
|                                       |               |                 |                         | Mean.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall—unmelted. | Number rainy days. | Number cloudy days. | Number clear days. |            |     |                         |
| Aiken.                                | Aiken.        | 565             | 22                      | 78.8                              | +4.8                       | 91       | 10    | 66      | 17    | 21                       | 4.05   | -0.69                      | 1.00                  | 0                        | 11                 | 13                  | 10                 | 7          | ne. | C. F. McGahan, M. D.    |
| Allendale.                            | Barnwell.     | 186             | 18                      | 79.6                              | +1.3                       | 95       | 4     | 63      | *9    | 21                       | 2.55   | -1.71                      | 1.40                  | 0                        | 1                  | 32                  | 0                  | 8          | ne. | A. R. Hiers.            |
| Anderson.                             | Anderson.     | 764             | 5                       | 75.9                              | +4.0                       | 92       | 11    | 59      | 9     | 32                       | 5.78   | +2.08                      | 2.15                  | 0                        | 12                 | 14                  | 1                  | 18         | ne. | H. H. Russell.          |
| Augusta, Ga.                          | Richmond.     | 134             | 35                      | 78.2                              | +3.8                       | 93       | 14    | 62      | 9     | 28                       | 6.92   | +2.99                      | 2.00                  | 0                        | 10                 | 7                   | 11                 | 9          | ne. | Weather Bureau.         |
| Barksdale.                            | Laurens.      | 680             | 5                       |                                   |                            |          |       |         |       |                          |        |                            |                       |                          |                    |                     |                    |            |     | J. T. Garrett.          |
| Batesburg.                            | Lexington.    | 656             | 18                      | 77.2                              | +3.2                       | 95       | 9     | 60      | 16    | 33                       | 4.86   | +0.60                      | 2.38                  | 0                        | 9                  | 43                  | 5                  | 12         | ne. | E. J. Hite.             |
| Beaufort.                             | Beaufort.     | 20              | 20                      | 79.0                              | +1.8                       | 91       | 4     | 64      | 9     | 24                       | 2.53   | -2.81                      | 0.93                  | 0                        | 12                 | 13                  | 14                 | 3          | ne. | S. M. Benton.           |
| Bennettsville.                        | Marlboro.     | 151             | 5                       | 78.0                              |                            | 96       | 14    | 62      | *8    | 33                       | 2.65   |                            | 0.64                  | 0                        | 10                 | 14                  | 10                 | 6          | ne. | C. S. McCall.           |
| Blackville.                           | Barnwell.     | 296             | 18                      | 80.5                              | +5.3                       | 98       | *2    | 62      | 9     | 31                       | 2.65   | -1.33                      | 1.90                  | 0                        | 5                  | 18                  | 7                  | 5          | ne. | G. D. C. Lange.         |
| Batts.                                | Fairfield.    | 293             | 1                       |                                   |                            |          |       |         |       |                          |        |                            | 1.96                  | 0                        | 6                  | 10                  | 11                 | 9          | ne. | T. S. McMeekin.         |
| Bowman.                               | Orangeburg.   | 160             | 5                       | 78.9                              |                            | 96       | 4     | 61      | 9     | 34                       | 3.46   |                            | 1.90                  | 0                        | 8                  | 14                  | 7                  | 9          | sw. | B. O. Evans.            |
| Calhoun Falls.                        | Abbeville.    | 508             | 13                      |                                   |                            |          |       |         |       |                          |        | +5.00                      | 3.76                  | 0                        | 9                  | 13                  | 0                  | 17         | ne. | P. J. Pfander.          |
| Camden (1).                           | Kershaw.      |                 |                         | 77.0                              |                            | 93       | 9     | 61      | 8     | 30                       | 4.40   |                            | 2.02                  | 0                        | 7                  | 12                  | 10                 | 8          | ne. | J. B. Mickle.           |
| Camden (2).                           | Kershaw.      | 222             | 40                      |                                   |                            |          |       |         |       |                          |        | -0.13                      | 2.00                  | 0                        | 4                  | 15                  | 3                  | 12         | ne. | W. C. Brown.            |
| Catawba.                              | York.         |                 |                         |                                   |                            |          |       |         |       |                          |        |                            | 2.16                  | 0                        | 4                  | 11                  | 6                  | 13         | ne. | James Y. Brice.         |
| Chappells.                            | Newberry.     | 402             | 1                       |                                   |                            |          |       |         |       |                          |        |                            | 2.64                  | 0                        | 6                  | 11                  | 1                  | 15         | ne. | W. F. Glenn.            |
| Charleston.                           | Charleston.   | 48              | 37                      | 79.6                              | +3.6                       | 91       | 4     | 69      | 17    | 19                       | 3.31   | -3.28                      | 1.01                  | 0                        | 13                 | 10                  | 15                 | 5          | ne. | Weather Bureau.         |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 28                      | 74.5                              | +3.4                       | 90       | 8     | 61      | 16    | 28                       | 2.04   | -1.33                      | 0.76                  | 0                        | 12                 | 8                   | 11                 | 11         | ne. | Weather Bureau.         |
| Cheraw (1).                           | Chesterfield. | 144             | 18                      | 76.2                              | +2.6                       | 91       | *10   | 63      | *8    | 27                       | 3.28   | -0.52                      | 0.78                  | 0                        | 8                  | 9                   | 1                  | 17         | ne. | W. R. Godfrey.          |
| Cheraw (2).                           | Chesterfield. | 144             | 13                      |                                   |                            |          |       |         |       |                          |        | -0.26                      | 0.95                  | 0                        | 8                  | 9                   | 10                 | 11         | ne. | Jno. H. Powe.           |
| Clarks Hill.                          | Edgefield.    | 500             | 4                       | 76.4                              |                            | 91       | *3    | 61      | 16    | 24                       | 5.04   |                            | 1.70                  | 0                        | 9                  |                     |                    |            | ne. | Wm. S. Middleton.       |
| Clemson College.                      | Oconee.       | 850             | 15                      | 75.5                              | +2.2                       | 88       | *3    | 60      | 9     | 26                       | 8.82   | +4.89                      | 1.98                  | 0                        | 9                  | 15                  | 4                  | 11         | ne. | Jno. N. Hook.           |
| Columbia.                             | Richland.     | 351             | 19                      | 77.7                              | +2.7                       | 92       | 3     | 63      | 9     | 29                       | 3.64   | -0.48                      | 2.31                  | 0                        | 11                 | 10                  | 13                 | 7          | ne. | Central Office.         |
| Conway.                               | Horry.        | 25              | 14                      | 78.2                              |                            | 95       | 10    | 62      | 8     | 31                       | 3.39   | -0.23                      | 1.10                  | 0                        | 9                  | 19                  | 2                  | 9          | ne. | Miss M. G. Quattlebaum. |
| Darlington.                           | Darlington.   | 175             | 11                      |                                   |                            |          |       |         |       |                          |        |                            |                       |                          |                    |                     |                    |            | ne. | D. C. McCall.           |
| Dillon.                               | Marion.       | 100             | 2                       | 78.0                              |                            | 96       | 9     | 60      | *8    | 36                       | 3.09   |                            | 0.83                  | 0                        | 8                  |                     |                    |            | ne. | A. E. Rowell.           |
| Due West.                             | Abbeville.    | 730             | 5                       | 75.5                              |                            | 90       | *3    | 62      | *10   | 28                       | 4.53   |                            | 2.16                  | 0                        | 11                 | 14                  | 2                  | 14         | ne. | Rev. O. Y. Bonner.      |
| Edisto.                               | Bamberg.      | 127             | 13                      |                                   |                            |          |       |         |       |                          |        | -1.85                      | 1.13                  | 0                        | 1                  | 16                  | 3                  | 11         | ne. | Mrs. M. Thompson.       |
| Edgingham.                            | Florence.     | 106             | 14                      |                                   |                            |          |       |         |       |                          |        | -0.55                      | 0.90                  | 0                        | 6                  | 21                  | 0                  | 9          | ne. | H. B. McCall.           |
| Enoree.                               | Spartanburg.  | 987             | 1                       |                                   |                            |          |       |         |       |                          |        | 4.59                       | 1.70                  | 0                        | 7                  | 15                  | 0                  | 15         | ne. | J. W. King.             |
| Florence.                             | Florence.     | 136             | 18                      | 78.1                              | +3.4                       | 95       | 9     | 62      | 9     | 33                       | 2.41   | -1.27                      | 0.90                  | 0                        | 8                  | 13                  | 3                  | 14         | ne. | H. K. Gilbert.          |
| Gaffney.                              | Cherokee.     | 893             | 10                      |                                   |                            |          |       |         |       |                          |        |                            |                       |                          |                    |                     |                    |            | ne. | B. F. Camp.             |
| Georgetown.                           | Georgetown.   | 12              | 13                      | 78.1                              | +2.3                       | 90       | 3     | 67      | 16    | 18                       | 3.93   | +0.89                      | 1.00                  | 0                        | 10                 | 6                   | 19                 | 5          | ne. | Reid Whitford.          |
| Greenville.                           | Greenville.   | 989             | 14                      | 71.9                              | +0.3                       | 90       | 12    | 55      | 9     | 31                       | 10.35  | +6.28                      | 2.90                  | 0                        | 13                 | 15                  | 0                  | 15         | ne. | Mrs. S. A. Crittenden.  |
| Greenwood.                            | Greenwood.    | 671             | 18                      | 75.2                              | +1.7                       | 90       | *9    | 62      | 9     | 28                       | 5.15   | +0.59                      | 2.60                  | 0                        | 9                  | 14                  | 0                  | 16         | sw. | M. M. Calhoun.          |
| Heath Spring.                         | Lancaster.    | 568             | 5                       | 75.0                              |                            | 94       | *1    | 60      | *15   | 32                       | 5.03   |                            | 1.78                  | 0                        | 11                 | 8                   | 16                 | 6          | ne. | J. A. Weaner.           |
| Kingstree (1).                        | Williamsburg. | 54              | 18                      | 79.0                              | -3.7                       | 94       | 14    | 66      | 8     | 25                       | 5.60   | +1.58                      | 3.10                  | 0                        | 11                 | 16                  | 6                  | 7          | ne. | J. A. Scott.            |
| Kingstree (2).                        | Williamsburg. | 54              | 12                      |                                   |                            |          |       |         |       |                          |        | +1.80                      | 2.95                  | 0                        | 9                  | 22                  | 4                  | 4          | ne. | A. O. Matthews.         |
| Liberty.                              | Pickens.      | 900             | 12                      | 74.4                              | +1.2                       | 90       | *10   | 58      | 9     | 31                       | 6.71   | +1.06                      | 1.80                  | 0                        | 12                 | 11                  | 13                 | 6          | sw. | Jno. T. Boggs.          |
| Little Mountain.                      | Newberry.     | 630             | 13                      | 76.5                              | +0.6                       | 92       | 9     | 63      | 16    | 27                       | 5.48   | +1.98                      | 2.40                  | 0                        | 10                 | 8                   | 13                 | 9          | ne. | John M. Sease, M. D.    |
| Lockhart.                             | Union.        |                 |                         |                                   |                            |          |       |         |       |                          |        |                            |                       |                          |                    |                     |                    |            | ne. | R. W. Boney.            |
| Newberry.                             | Newberry.     | 502             | 2                       | 77.1                              | +3.2                       | 93       | 9     | 60      | 9     | 33                       | 4.94   | +1.30                      | 1.70                  | 0                        | 11                 | 4                   | 14                 | 12         | ne. | W. G. Peterson.         |
| Pelzer.                               | Anderson.     | 873             | 1                       |                                   |                            |          |       |         |       |                          |        |                            | 1.50                  | 0                        | 13                 | 8                   | 5                  | 17         | ne. | John M. Ward.           |
| Pinopolis.                            | Berkeley.     | 54              | 13                      | 78.0                              | +3.8                       | 90       | 14    | 68      | 9     |                          | 5.16   | +1.48                      | 4.00                  | 0                        | 7                  | 14                  | 6                  | 10         | ne. | E. P. Ravenel.          |
| St. George.                           | Dorchester.   | 109             | 18                      | 78.6                              | +3.7                       | 92       | *3    | 63      | 9     | 27                       | 2.70   | -2.55                      | 1.77                  | 0                        | 4                  | 24                  | 0                  | 6          | ne. | G. T. Lewis.            |
| St. Matthews.                         | Orangeburg.   | 269             | 18                      | 76.6                              | +1.5                       | 89       | 13    | 64      | 18    | 23                       | 5.05   | +1.46                      | 1.74                  | 0                        | 7                  | 18                  | 0                  | 12         | ne. | J. S. Warnamaker.       |
| St. Stephen.                          | Berkeley.     | 73              | 14                      |                                   |                            |          |       |         |       |                          |        | +1.27                      | 2.00                  | 0                        | 9                  | 15                  | 4                  | 11         | ne. | C. T. Shuler.           |
| Saluda.                               | Saluda.       | 536             | 5                       | 76.9                              |                            | 94       | 9     | 58      | 9     | 36                       | 4.26   |                            | 1.87                  | 0                        | 11                 | 18                  | 4                  | 8          | sw. | Alvin Etheridge.        |
| Santee.                               | Union.        | 512             | 13                      | 75.2                              | +2.0                       | 91       | *3    | 58      | 9     | 32                       | 4.02   | +0.62                      | 1.37                  | 0                        | 11                 | 9                   | 8                  | 13         | sw. | E. W. Jeter.            |
| Savannah, Ga.                         | Chatham.      | 71              | 37                      | 79.4                              | +3.6                       | 95       | 4     | 67      | 16    | 23                       | 2.55   | -3.57                      | 0.87                  | 0                        | 12                 | 12                  | 10                 | 8          | ne. | Weather Bureau.         |
| Smiths Mills.                         | Williamsburg. | 62              | 11                      |                                   |                            |          |       |         |       |                          |        | -5.79                      | 3.00                  | 0                        | 11                 | 20                  | 0                  | 10         | ne. | H. van Keuren.          |
| Society Hill.                         | Darlington.   | 192             | 15                      | 76.7                              | +3.5                       | 91       | 3     | 63      | 8     | 24                       | 4.03   | -0.39                      | 1.10                  | 0                        | 10                 | 15                  | 7                  | 8          | ne. | J. J. Lucas.            |
| Spartanburg.                          | Spartanburg.  | 875             | 15                      | 73.4                              | +0.8                       | 93       | 3     | 58      | 9     | 32                       | 5.97   | +1.80                      | 1.16                  | 0                        | 14                 | 10                  |                    | 19         | ne. | F. P. Robinson.         |
| Stateburg.                            | Sumter.       | 500             | 29                      | 77.8                              | +4.1                       | 90       | *3    | 65      | *8    | 24                       | 7.19   | +4.02                      | 2.50                  | 0                        | 10                 |                     |                    |            | sw. | W. W. Anderson, M. D.   |
| Summerville.                          | Dorchester.   | 75              | 9                       | 78.7                              | +3.7                       | 95       | *3    | 61      | 9     | 32                       | 4.78   | +1.11                      | 1.66                  | 0                        | 12                 | 10                  | 15                 | 5          | ne. | Miss E. H. Gadsden.     |
| Sumter.                               | Sumter.       | 169             | 5                       | 79.3                              |                            | 97       | 8     | 60      | 8     | 37                       | 4.13   |                            | 2.00                  | 0                        | 10                 | 13                  | 17                 | 0          | ne. | H. A. Moses.            |
| Trenton.                              | Edgefield.    | 620             | 13                      | 76.6                              | -0.4                       | 94       | 4     | 62      | 16    | 26                       | 4.72   | +0.96                      | 3.20                  | 0                        | 8                  | 5                   | 20                 | 5          | ne. | C. A. Long.             |
| Trial.                                | Berkeley.     | 85              | 20                      | 78.4                              | +4.9                       | 95       | 9     | 62      | 9     | 33                       | 5.41   | +1.44                      | 4.45                  | 0                        | 6                  | 7                   | 15                 | 8          | ne. | Etsell Gaillard.        |
| Walhalla.                             | Oconee.       | 1061            | 15                      | 75.6                              | +5.2                       | 92       | 10    | 60      | 16    | 28                       | 14.37  | +0.59                      | 2.84                  | 0                        | 14                 | 1                   | 23                 | 6          | sw. | Miss Jessie Douthit.    |
| Walterboro.                           | Colleton.     | 69              | 3                       | 78.6                              |                            | 92       | *3    | 60      | 9     | 32                       | 2.68   |                            | 0.95                  | 0                        | 8                  | 10                  | 16                 | 4          | ne. | J. A. Westerberg.       |
| Wilmington, N. C.                     | New Hanover.  | 52              | 37                      | 77.4                              | +3.8                       | 94       | 10    | 62      | 8     | 28                       | 3.41   | -3.01                      | 1.18                  | 0                        | 10                 | 7                   | 19                 | 4          | ne. | Weather Bureau.         |
| Winnsboro.                            | Fairfield.    | 545             | 17                      | 76.1                              | +3.2                       | 93       | 10    | 64      | 17    | 23                       | 2.55   | -1.28                      | 1.75                  | 0                        | 3                  | 26                  | 8                  | 2          | ne. | John W. Seigler.        |
| Winthrop College.                     | York.         | 690             | 7                       | 75.4                              | +2.2                       | 91       | *3    | 57      | 15    | 31                       | 4.57   | +0.45                      | 1.76                  | 0                        | 10                 | 16                  | 8                  | 6          | ne. | E. R. Rivers.           |
| Yemassee.                             | Beaufort.     | 23              | 11                      | 77.2                              | +0.7                       | 91       | *4    | 62      | 9     | 27                       | 3.46   | -0.44                      | 1.38                  | 0                        | 7                  | 22                  | 0                  | 8          | sw. | J. G. Hutson.           |
| Yorkville.                            | York.         | 680             | 18                      | 76.6                              | +3.0                       | 92       | *3    | 62      | 26    | 27                       | 5.39   | +1.01                      | 1.69                  | 0                        | 11                 | 3                   | 14                 | 13         | ne. | J. R. Schorb.           |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 78.0                              | +2.9                       | 98       | *2    | 55      | 9     | 37                       | 4.85   | +0.80                      | 4.45                  | 0                        | 9                  | 10                  | 12                 | 8          | ne. |                         |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also a indicates 1 day missing, b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.

| Temperature, Rainy Days and Wind. |            |           |           |               |              |             |                   | Precipitation. |                |                   |               |                |                       |
|-----------------------------------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|----------------|----------------|-------------------|---------------|----------------|-----------------------|
| Year.                             | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. | Year.          | State Average. | Greatest Monthly. | Place.        | Least Monthly. | Place.                |
| 1894 ..                           | 75.0       | 83.0      | 67.2      | 100           | 52           | 12          | ne.               | 1894....       | 6.51           | 10.94             | Charleston.   | 2.34           | Central.              |
| 1895 ..                           | 76.9       | 85.9      | 67.2      | 106           | 35           | 4           | ne.               | 1895....       | 1.29           | 6.94              | Charleston.   | 0.00           | Central and 2 others. |
| 1896 ..                           | 75.0       | 86.2      | 63.9      | 105           | 39           | 5           | ne.               | 1896....       | 2.94           | 8.06              | Central.      | 0.50           | Shaw's Fork.          |
| 1897 ..                           | 73.3       | 84.2      | 62.4      | 100           | 42           | 4           | ne.               | 1897....       | 2.91           | 5.52              | St. Matthews. | 0.80           | Walhalla.             |
| 1898 ..                           | 76.0       | 84.1      | 67.9      | 96            | 48           | 7           | ne.               | 1898....       | 4.06           | 10.32             | Mt. Carmel.   | 0.50           | Batesburg.            |
| 1899 ..                           | 72.8       | 83.3      | 62.3      | 102           | 34           | 6           | ne.               | 1899....       | 2.55           | 5.25              | Smiths Mills. | 0.55           | Anderson.             |
| 1900 ..                           | 77.1       | 88.0      | 66.2      | 100           | 45           | 5           | ne.               | 1900....       | 2.83           | 6.51              | Trial.        | 1.08           | Temperance.           |
| 1901 ..                           | 73.1       | 82.5      | 63.7      | 98            | 46           | 6           | ne.               | 1901....       | 4.66           | 8.40              | Cheraw.       | 0.30           | Bowman.               |
| 1902 ..                           | 72.1       | 82.1      | 62.1      | 98            | 43           | 8           | ne.               | 1902....       | 3.74           | 7.97              | Beaufort.     | 1.10           | Bowman.               |
| 1903 ..                           | 72.7       | 82.9      | 62.5      | 100           | 41           | 5           | ne.               | 1903....       | 3.62           | 9.43              | Yemassee.     | 0.60           | Due West.             |
| 1904 ..                           | 75.8       | 85.8      | 65.8      | 101           | 44           | 4           | ne.               | 1904....       | 2.46           | 9.50              | Smiths Mills. | T.             | Little Mountain.      |
| 1905 ..                           | 76.2       | 86.8      | 65.6      | 99            | 49           | 4           | ne.               | 1905....       | 1.91           | 8.61              | Darlington.   | T.             | Due West.             |
| 1906 ..                           | 78.0       | 87.7      | 68.3      | 98            | 55           | 9           | ne.               | 1906....       | 4.85           | 14.37             | Walhalla.     | 1.43           | Edisto.               |







10" 8" 6"



## DAILY PRECIPITATION FOR SOUTH CAROLINA, SEPTEMBER, 1906.

| STATIONS.         | Day of Month. |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     |      |      |      |      |     |      |      |      |      |     |      |      |      |     |     | Total. |      |
|-------------------|---------------|-----|-----|------|------|-----|----|-----|---|----|------|------|------|-----|-----|-----|------|------|------|------|-----|------|------|------|------|-----|------|------|------|-----|-----|--------|------|
|                   | 1             | 2   | 3   | 4    | 5    | 6   | 7  | 8   | 9 | 10 | 11   | 12   | 13   | 14  | 15  | 16  | 17   | 18   | 19   | 20   | 21  | 22   | 23   | 24   | 25   | 26  | 27   | 28   | 29   | 30  | 31  |        |      |
| Aiken             | .10           |     |     |      | .05  | .20 |    |     |   |    |      |      | 1.00 |     |     |     |      |      | .10  |      |     | .15  | .95  | .95  | .10  |     | .20  |      | .25  |     |     | 4.05   |      |
| Allendale         |               |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     |      | 1.40 |      | .65  |     |      |      |      |      |     | .30  | .30  |      |     |     | 2.55   |      |
| Anderson          |               |     |     |      |      |     |    |     |   |    | .09  | 1.59 | .02  |     |     | .01 |      | 2.15 | .34  | .38  |     |      | .27  | .07  | .26  |     |      | .30  | .30  |     |     | 5.78   |      |
| Augusta, Ga.      | 2.00          |     |     | T.   |      |     |    |     |   |    | T.   | 1.42 | .60  |     |     |     | .80  | .60  |      |      |     |      | .28  | .86  |      | .17 | .13  | .06  |      |     |     | 6.02   |      |
| Barksdale         | 2.00          |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     |      |      |      |      |     |      |      |      |      |     |      |      |      |     |     |        |      |
| Batesburg         | .27           |     |     |      | .22  |     |    |     |   |    |      |      | .06  |     |     |     |      | 2.38 | .42  |      |     |      |      | 1.09 | .24  |     | T.   | .04  | 1.14 |     |     | 4.86   |      |
| Beaufort          | .02           |     |     | .39  | .03  |     |    |     |   |    |      |      |      |     |     |     | .67  | .26  | .05  | .52  |     |      |      | .24  | .14  | .07 |      | .12  |      | .02 |     | 2.53   |      |
| Bennettsville     |               | .40 |     |      |      |     |    | T.  |   |    |      |      |      | T.  |     | .07 | .31  | .64  | .16  | .12  | .09 |      | .03  | .62  |      | .21 | T.   |      | T.   |     |     | 2.65   |      |
| Blackville        |               | .12 |     |      | .45  |     |    |     |   |    |      |      | .10  |     |     |     | 1.90 |      |      |      |     |      |      |      |      |     | .08  | T.   |      |     |     | 2.65   |      |
| Blairs            |               | .46 |     |      |      |     |    |     |   |    |      |      | .14  |     |     |     | 1.96 |      |      |      |     |      |      | .50  |      |     | .36  | .30  |      |     |     | 3.72   |      |
| Bowman            |               |     |     |      | .07  |     |    |     |   |    |      |      |      |     |     | T.  | 1.90 | .30  |      | .11  |     |      |      |      | T.   | .12 | .54  | .24  |      | .18 |     | 3.46   |      |
| Calhoun Falls     | 3.76          |     |     | .27  |      |     |    |     |   |    |      | .64  |      |     |     |     | .89  | .74  |      |      |     |      |      |      |      |     | .42  | .79  | .61  | .92 |     | 9.04   |      |
| Camden (1)        |               |     | T.  |      |      |     |    |     |   |    |      | .03  |      |     |     |     | .45  | .02  | .02  |      |     | T.   |      | T.   | 1.54 |     | .33  | .01  | T.   |     |     | 4.40   |      |
| Camden (2)        | .70           |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     | 2.00 |      |      | .50  |     |      |      | .56  |      |     |      |      |      |     |     | 3.76   |      |
| Catawba           |               |     |     | .12  |      |     |    |     |   |    |      |      | .18  |     |     |     | T.   | .16  |      |      |     |      |      |      |      | T.  |      | .05  |      |     |     | 2.57   |      |
| Chappells         | T.            |     |     | .64  |      |     |    |     |   |    |      | .70  |      |     |     |     | 2.64 | .06  | .24  |      |     |      |      | .76  |      |     |      |      | T.   |     |     | 5.04   |      |
| Charleston        | .17           |     |     | .16  | T.   |     |    |     |   |    |      | .08  | .34  |     |     |     | T.   | 1.01 | .01  | .43  |     |      |      | .03  | .05  | .78 | T.   | .01  | .04  | .20 |     | 3.31   |      |
| Charlotte, N. C.  |               | .41 |     | T.   |      |     |    |     |   |    | .03  | .05  | .43  |     |     |     | T.   | .29  | .47  | .08  | .05 |      |      | .17  | T.   | .24 | .06  | .12  |      | T.  |     | 2.04   |      |
| Cheraw (1)        |               | .76 |     | .31  |      |     |    |     |   |    |      |      |      | T.  |     |     |      | .78  | .17  |      |     |      |      | .49  | .27  |     | .35  |      |      |     |     | 3.28   |      |
| Cheraw (2)        |               | .84 |     | .29  |      |     |    |     |   |    |      |      |      | T.  |     |     |      | .95  | .17  |      |     | T.   | .15  |      | .49  | .27 |      | .36  |      |     |     | 3.76   |      |
| Clark's Hill      |               |     |     |      | T.   |     |    |     |   |    | .13  | .81  |      |     |     |     | 1.70 | .30  |      | .42  |     |      |      | T.   | 1.23 | .14 | .16  | .15  |      |     |     | 5.04   |      |
| Clemson College   |               |     |     |      | 1.42 |     |    |     |   |    | 1.93 |      |      |     |     |     | 1.98 |      | 1.01 | .68  |     |      |      |      | .54  | .10 |      | .40  | .76  |     |     | 8.82   |      |
| Columbia          |               |     | T.  |      |      |     |    |     |   |    |      | .06  |      |     |     |     | 1.87 | .44  | .01  |      | .17 |      | .01  | .66  |      | .14 | .26  | .01  |      | .01 |     | 3.64   |      |
| Conway            | T.            |     |     | .20  | .25  | .25 |    |     |   |    |      |      |      |     |     |     | T.   | .35  |      | .36  |     |      |      |      |      | .63 | 1.10 | .25  | T.   | .05 |     | 3.39   |      |
| Darlington        |               |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     |      |      |      |      |     |      |      |      |      |     |      |      |      |     |     |        |      |
| Dillon            |               | .33 | .20 | .02  |      |     |    |     |   |    |      |      |      |     |     |     | T.   | .83  | .75  | .24  | T.  |      |      | T.   |      |     | .24  | .48  |      |     |     | 3.09   |      |
| Due West          |               | .22 |     |      |      |     |    |     |   |    | .07  | .60  | .22  |     |     |     |      | .16  | .52  |      |     | .10  |      |      | .11  |     |      | .10  | .32  | .11 |     | 4.53   |      |
| Edisto            |               |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     |      | 1.43 |      |      |     |      |      |      |      |     |      |      |      |     |     | 1.43   |      |
| Ellingham         | .40           |     |     | .50  | .75  |     |    |     |   |    |      |      |      |     |     |     |      | .90  |      | .90  |     |      |      |      | T.   |     | .50  |      |      |     |     | 3.95   |      |
| Enoree            |               |     |     | .60  |      |     |    |     |   |    |      | .40  |      |     |     |     |      | 1.70 |      | .50  |     |      |      |      | .20  | .90 |      | .29  |      |     |     | 4.59   |      |
| Florence          | .14           |     |     | T.   |      | T.  |    |     |   |    |      |      |      |     |     |     |      | .90  | .10  | .17  |     |      |      |      | .25  | .18 | .40  | .27  |      |     |     | 2.41   |      |
| Gaffney           |               |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     |      |      |      |      |     |      |      |      |      |     |      |      |      |     |     |        |      |
| Georgetown        | .28           | .10 | .30 |      |      |     |    |     |   |    |      |      | .35  |     |     |     | 1.00 | .40  |      |      |     |      | .45  | .22  | .40  | .43 | T.   | T.   | T.   | T.  |     | 3.93   |      |
| Greenville        | 1.00          |     |     | .90  |      |     |    |     |   |    |      | .45  |      |     | .15 |     | 1.90 | 1.45 | .80  |      |     |      |      |      | 2.90 | .15 | .11  | .16  | .23  | .15 |     | 10.35  |      |
| Greenwood         |               | .20 | .10 |      |      |     |    |     |   |    |      | .05  | 1.10 |     |     |     | 2.60 | .80  | .05  |      |     |      |      |      |      |     | .10  |      | .15  |     |     | 5.15   |      |
| Heath Spring      |               | .26 |     |      |      |     |    |     |   |    |      | .02  | .15  |     |     |     | 1.78 | .50  | .40  |      | .14 |      | .01  | .34  | T.   | .34 | .09  |      |      |     |     | 5.03   |      |
| Kingsree(1)       | .37           |     |     | .40  | .02  | T.  |    | .01 |   |    |      |      |      |     |     |     |      | 3.10 | .02  | 1.24 |     |      |      |      |      | .02 | .20  | .05  | .07  |     |     | 5.60   |      |
| Kingsree(2)       | .40           |     |     | .35  | .02  | T.  |    | .01 |   |    |      |      |      |     |     |     |      | 2.95 |      | 1.02 |     |      |      |      |      | .02 | .33  | .05  |      |     |     | 5.15   |      |
| Liberty           | .04           |     |     | 1.36 | .46  |     |    |     |   |    | T.   | .55  |      |     |     |     |      | 1.80 | .55  | .45  |     |      |      | .20  | T.   |     | .70  | .20  | .15  | .25 | T.  |        | 6.71 |
| Little Mountain   |               | .01 |     |      |      |     |    |     |   |    |      | .84  |      |     |     |     |      | .40  | 2.00 | .10  |     |      |      | .69  | .82  |     | .34  | .25  | .03  |     |     | 5.48   |      |
| Lockhart          |               |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     |      |      |      |      |     |      |      |      |      |     |      |      |      |     |     |        |      |
| Newberry          |               | .11 | .09 |      |      |     |    |     |   |    |      | .87  |      |     |     |     | 1.70 | .07  | .10  |      |     |      | 1.01 | .06  |      | .23 | .26  | .44  |      | T.  |     | 4.94   |      |
| Pelzer            |               | .01 | .60 | .04  |      |     |    |     |   |    |      | .58  | T.   |     |     |     | 1.50 | 1.10 | .40  |      |     |      |      | .06  | .72  | .02 | .06  |      | .46  | .10 |     | 5.65   |      |
| Pinopolis         | .12           |     |     | .10  |      |     |    |     |   |    |      |      |      |     |     |     |      |      | .31  |      |     |      |      |      |      |     |      |      |      | .35 |     | 5.16   |      |
| St. George        |               | .31 |     | .14  |      |     |    |     |   |    |      |      |      |     |     |     |      | 1.77 |      |      |     |      |      |      |      |     | .45  |      |      |     |     | 2.70   |      |
| St. Matthews      | 1.50          |     |     |      | .25  |     |    |     |   |    |      |      |      |     |     |     |      | 1.74 |      |      |     | .15  |      |      |      | .88 |      | .18  | .35  |     |     | 5.05   |      |
| St. Stephen       |               |     |     | .12  | .17  |     |    |     |   |    |      |      |      |     |     |     |      | 1.70 | .08  | 2.00 |     |      |      |      |      | .05 | .02  | .50  | .03  |     |     | 4.75   |      |
| Saluda            |               | .01 | .57 |      |      |     |    |     |   |    |      | .56  |      | .02 |     |     |      | 1.87 |      |      |     |      | .29  | .59  |      | .02 | .14  | .09  |      |     |     | 4.26   |      |
| Santee            |               | .13 |     | .04  | T.   |     |    |     |   |    | 1.37 | T.   |      |     |     |     | T.   | 1.21 | T.   | .61  |     |      | .05  | .38  | .10  | .04 | T.   | .01  |      | .08 |     | 4.02   |      |
| Savannah, Ga.     | .13           | T.  | T.  | .13  | .79  |     |    |     |   | T. |      |      | .09  |     |     |     | T.   | .28  | .02  | T.   |     |      | .02  |      | .06  | .87 | .02  | .12  | .02  | T.  |     | 2.55   |      |
| Severn            |               |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     |      |      |      |      |     |      |      |      |      |     |      |      |      |     |     |        |      |
| Smiths Mills      | .18           |     |     | .20  | .18  |     |    |     |   |    |      |      |      |     |     |     |      | 3.00 | .20  | .25  |     |      | T.   |      | .18  | .50 | .40  | .30  | .40  |     |     | 5.79   |      |
| Society Hill      |               | .20 |     |      |      |     |    |     |   |    |      |      | .02  |     |     |     | 1.10 | .46  | .63  |      |     | 1.06 | .05  | .06  | .42  | .03 |      |      |      |     |     | 4.03   |      |
| Spartanburg       |               |     | .30 | .40  | .10  |     |    |     |   |    |      | .70  |      | .45 |     |     | T.   | 1.16 | .87  | .32  |     |      | T.   | .07  | 1.00 | .05 | .32  | .03  | .20  |     |     | 5.97   |      |
| Stateburg         |               |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     | 2.50 | 1.74 | .12  |      |     |      | .51  | 1.46 |      | .42 | .15  | .16  |      | .05 |     | 7.19   |      |
| Summerville       |               |     |     |      |      |     |    |     |   |    |      |      |      |     |     |     | 1.65 | .83  | .30  | .11  |     |      |      |      | .05  | .03 | .31  | .81  | .05  | T.  |     | 4.78   |      |
| Sumter            | .03           |     | .54 | T.   |      |     | T. |     |   |    |      |      | .06  | T.  |     |     |      | .10  |      |      |     |      |      |      | .95  | .10 | .12  | .20  |      |     |     | 4.13   |      |
| Trenton           |               | .25 | .20 | .11  | .10  |     |    |     |   |    |      |      |      |     |     |     |      | .72  | 2.48 | .27  | T.  |      |      |      | .53  |     | .15  | .01  | .26  |     |     | 4.71   |      |
| Trial             | T.            |     |     | .56  | .15  |     |    |     |   |    |      | .30  |      |     |     |     | 4.45 | T.   |      |      |     |      |      |      |      |     | T.   |      | .02  | .07 | T.  | .16    | 5.41 |
| Walhalla          | 1.19          |     |     | .35  |      |     |    |     |   |    | .27  | 1.20 | 2.10 |     |     |     |      | 2.84 | 1.65 | 1.80 | .24 | .16  |      | .53  |      | .20 | .55  | 1.25 |      |     |     | 14.37  |      |
| Walterboro        | .05           |     |     | T.   |      |     |    |     |   |    |      | .06  |      |     |     |     | .95  | .24  |      |      |     |      |      | .35  |      |     | .14  | T.   |      |     |     | 2.68   |      |
| Wilmington, N. C. | 1.18          | .86 | .23 |      |      |     | T. |     |   |    |      |      |      |     |     |     | .29  | T.   |      |      |     |      | .19  |      | T.   | .09 | .48  | .05  | T.   | .03 | .01 | 3.41   |      |
| Windsboro         |               |     |     |      |      |     |    |     |   |    | .30  |      |      |     |     |     | 1.75 |      |      |      |     | .50  |      |      | T.   | T.  | T.   | T.   |      |     |     | 2.55   |      |
| Winthrop College  |               | .41 |     | .03  |      |     |    |     |   |    |      | 1.34 |      |     |     |     | .03  | 1    |      |      |     |      |      |      |      |     |      |      |      |     |     |        |      |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR OCTOBER, 1906.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE  
NOVEMBER 24, 1906.

A detailed map of Georgia with county boundaries and names. Red arrows indicate the movement of the 1880-81 winter weather system across the state. The arrows show a general path from the northwest to the southeast, with some local variations. Key locations marked include Savannah, Augusta, Macon, and Atlanta. The map also shows the Atlantic Ocean to the east and the Florida border to the south.



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. IX. COLUMBIA, S. C., OCTOBER, 1906.

No. 10.

## GENERAL SUMMARY.

The current October was the coldest since 1896, and at some stations was the coldest of record. High temperatures and generally cloudy weather with frequent rains prevailed from the 1st to the 6th, after which the temperature fell slowly to the 10th, with occasional widely scattered showers and partly cloudy weather. A cool wave passed over the State from the 11th to the 14th, causing unusually low minimum temperatures, and the lowest October minimum temperature of record occurred at Heath Spring on the 12th. Frosts were general during this period to within a few miles of the coast. The frosts were killing over a large portion of the State on the 11th, being the earliest killing frost of record at such stations where it occurred. Cloudiness increased rapidly during the 15th and a general rainy and cloudy period began on the 16th, which continued to the 24th, with the temperatures generally above normal. Unusually heavy rainfall occurred in Georgetown and Horry counties on the 20th, and gales prevailed along the entire coast, the winds attaining hurricane velocity in places, with a recorded maximum velocity of 64 miles per hour at Charleston and an estimated maximum velocity of 60 miles per hour at Beaufort. After the 24th, the weather cleared and remained clear to the end of the month. A second cool wave crossed the State from the 29th to the 31st, causing killing frosts to within a few miles of the coast, and light frosts along the coast except in the extreme southeastern portion.

There were fewer clear and partly cloudy days and more cloudy days than the average numbers for this month. The month as a whole may be characterized as having been unusually cool, and wet, especially along the northern portion of the coast, where the rainfall was excessive. As usual, the prevailing direction of the wind was from the northeast.

## Temperature.

The mean temperature for October, 1906, was  $61.9^{\circ}$ , which is  $1.7^{\circ}$  below normal. The highest local mean was  $66.2^{\circ}$  at Charleston, the lowest  $56.6^{\circ}$  at Greenville. The monthly extremes of temperature were a maximum of  $90^{\circ}$  at Sumter on the 1st, and a minimum of  $24^{\circ}$  at Heath Spring on the 12th, making the State range  $66^{\circ}$ . The greatest local monthly range was  $60^{\circ}$  at Heath Spring and Sumter, the least was  $40^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $71.7^{\circ}$ , and of the daily minimum temperatures was  $52.1^{\circ}$ , making the average daily range  $19.6^{\circ}$ .

## Precipitation.

The average precipitation was 3.69 inches, which is 0.61 of an inch above normal. The greatest local monthly amount was 12.15 inches at Georgetown, the least was 0.84 of an inch

at Bennettsville. The greatest 24-hour rainfall was 6.00 inches at Georgetown on the 20th. The average number of days with 0.01 of an inch, or more, precipitation was 7, ranging from 3 at Allendale, Blairs, and Chappels to 11 days at Beaufort, Heath Spring and Newberry.

**EXCESSIVE PRECIPITATION.** At Beaufort on the 1st, 2.54 inches in 5 hours; at Camden on the 18th-19th, 4.03 inches in 24 hours; at Camden (2) on the 18th-19th, 3.94 inches in 24 hours; at Catawba on the 19th, 2.50 inches in 24 hours; at Conway on the 20th 21st, 2.80 inches in 24 hours; at Georgetown on the 20th, 6.00 inches in 24 hours; at St. George on the 18th, 4.00 inches in 3 hours; at St. Matthews on the 18th-19th, 2.50 inches in 16 hours; at Smiths Mills on the 20th, 2.40 inches in 14 hours; at Stateburg on the 17th-18th, 5.47 inches in 24 hours; at Trial on the 18th, 2.22 inches in 11 hours, 30 minutes.

## Wind.

The prevailing direction of the wind was from the northeast at 26 stations, from the east at 9 stations, from the north at 8 stations, from the west at 5 stations, from the south, southwest, and northwest at 1 station each.

**HIGH WINDS.**—High winds occurred at Beaufort on the 6th, 20th, 21st; at Blackville on the 18th; at Bowman on the 17th, 20th; at Camden on the 6th, 9th, 19th, 20th, 25th, 31st; at Charleston, Georgetown, Summerville on the 20th; at Columbia, Yorkville on the 6th, 20th, 27th; at Liberty on the 6th; at Newberry, Trial on the 19th, 20th; at Saluda on the 21st.

## Sunshine and Cloudiness.

The average number of clear days was 14, of partly cloudy days was 6, and of cloudy days was 11.

## MISCELLANEOUS PHENOMENA.

**SOLAR HALO.**—At Charleston on the 30th.

**LUNAR HALOS.**—At Charleston and Stateburg on the 26th; at Little Mountain on the 5th.

**DENSE FOGS.**—At Camden, Liberty, Newberry, Society Hill on the 4th; at Cheraw on the 25th; at Columbia, Yorkville on the 5th; at Winthrop College on the 1st, 4th, 5th.

**THUNDERSTORMS.**—Nine thunderstorms were reported from five stations, on five dates, as follows: From Beaufort on the 2nd, 6th, 20th; from Charleston on the 2nd, 9th, 20th; from Cheraw and Summerville on the 3rd; from Stateburg on the 2nd.

**FROSTS.**—Frosts occurred in the western portion of the State on the 7th and 9th, and generally over the State on the 10th, 11th, and 12th, and from the 29th to the 31st inclusive. The first killing frost of the season was reported from the following stations: On the 11th from Anderson, Batesburg, Blairs, Chappels, Darlington, Dillon, Greenwood, Heath Spring, Little Mountain, Newberry, Pelzer, Saluda, Santuc, Society Hill, Spartanburg, Stateburg, Walhalla, Winthrop College, Yemassee, Yorkville; on the 10th from Liberty; on the 12th from Bennettsville, Cheraw, Florence, Kingstree, St. Matthews; on the 29th from Blackville, Clemson College, Columbia, Greenville, Trenton. The first light frost of the season occurred at Charleston on the 29th.

## ERRATA.

The following corrections should be made in the September, 1906, Monthly Report: On page 69, at Greenville the mean temperature,  $71.9^{\circ}$ , should be  $72.0^{\circ}$ ; at Pinopolis the mean temperature,  $78.0^{\circ}$ , should be  $77.8^{\circ}$ . On page 70, at Greenville, the mean minimum temperature,  $62.2^{\circ}$ , should be  $62.3^{\circ}$ ; at Winthrop College the minimum temperature on the 21st,  $68^{\circ}$ , should be  $67^{\circ}$ .



BAROMETER AND WIND TABLE FOR OCTOBER, 1906.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 30.02      | 30.45    | 13    | 29.66   | 20    | 5.653           | 7.6             | 34                | n.         | 20    |
| Charleston.....       | 29.98      | 30.40    | 13    | 29.26   | 20    | 9.797           | 13.2            | 64                | n.         | 20    |
| Charlotte, N. C. .... | 30.05      | 30.51    | 13    | 29.68   | 6     | 6.111           | 8.2             | 30                | sw.        | 6     |
| Columbia.....         | 30.01      | 30.49    | 13    | 29.64   | 19    | 5.944           | 8.0             | 36                | ne.        | 20    |
| Savannah, Ga.....     | 30.00      | 30.38    | 13    | 29.44   | 20    | 5.897           | 7.9             | 42                | n.         | 20    |
| Wilmington, N. C. ... | 29.97      | 30.43    | 13    | 29.49   | 19    | 6.535           | 8.8             | 38                | ne.        | 20    |
| Averages.....         | 30.00      | 30.51    | 13    | 29.26   | 20    | 6.656           | 9.0             | 64                | n.         | 20    |

RIVER GAGE READINGS, OCTOBER, 1906.

| Stations.           | Mean. | Highest. | Date. | Lowest. | Date. |
|---------------------|-------|----------|-------|---------|-------|
| Blairs.....         | 2.8   | 8.6      | 5     | 1.3     | 18    |
| Calhoun Falls.....  | 4.2   | 9.9      | 4     | 3.2     | *17   |
| Camden.....         | 14.0  | 28.6     | 21    | 8.1     | 18    |
| Catawba.....        | 5.0   | 15.3     | 20    | 2.5     | *17   |
| Chappells.....      | 6.7   | 13.3     | 5     | 4.0     | 31    |
| Cheraw.....         | 7.5   | 25.0     | 21    | 3.0     | *18   |
| Columbia.....       | 2.9   | 8.0      | 5     | 1.0     | 26    |
| Edisto.....         | 3.3   | 4.3      | 1     | 2.4     | *20   |
| Effingham.....      | 6.7   | 8.6      | 1     | 4.4     | *18   |
| Kingstree.....      | 7.9   | 10.1     | 27    | 6.0     | 20    |
| Mt. Holly, N.C..... | 3.2   | 7.4      | 5     | 2.0     | 16    |
| Pelzer.....         | 4.7   | 8.1      | 4     | 3.9     | 31    |
| Rimini.....         | 12.8  | 14.9     | 25    | 10.6    | *18   |
| St. Stephens.....   | 9.2   | 9.7      | 31    | 8.8     | *24   |
| Smiths Mills.....   | 10.1  | 13.6     | 31    | 7.0     | *19   |

\* On other dates also.

CLIMATOLOGICAL DATA FOR STATEBURG, S. C.

This station was established by the Signal Corps, U. S. Army, in 1881, with Dr. W. W. Anderson, M. D., as co-operative observer, and with but slight breaks that do not materially impair the record Dr. Anderson has taken daily observations ever since. Stateburg is in Latitude  $33^{\circ} 55'$  and Longitude  $80^{\circ} 23'$ ; its elevation is approximately 500 feet. Stateburg was named by Gen. Thomas Sumter, who lived there during and after the revolutionary war. It is located in the western part of Sumter county, on a spur of "The High Hills of Santee." The region is peculiar in its topographic features, being a miniature range of mountains forming a perfect dividing ridge for nearly fifty miles, between the Wateree river on the west and the Pocotaligo river on the east, and to the southward the hills abut on the swamps of the Wateree river near its junction with the Congaree river. The immediate vicinity of Stateburg is a moderately level tableland, having an average width of about five miles. Dr. Anderson's premises occupy the highest point of this tableland, with gentle slopes in every direction.

For seven and a half years after the establishment of the station, the thermometers used were made by J. Kendall & Co., and for the first year were exposed on the outside of a window facing north with only the ordinary window-shutters for a shelter. This was unsatisfactory and they were removed to the north window of a small Pise outbuilding in

1882, within a small lattice-work shelter. Up to 1887 the daily mean temperatures and the daily maximum and minimum temperatures were obtained from ordinary thermometers. In August, 1887, a set of maximum and minimum thermometers was received from the Signal Corps, and the same instruments have been used ever since. A standard Cotton Region shelter was received in January, 1898, and was set up about 60 feet to the westward of the dwelling, in an open space, and the location has not been changed to date. In February, 1893, the method of deducing the mean daily temperature was changed from using the 7 a. m., 2 p. m., and 9 p. m. readings of an ordinary thermometer to that ordinarily used, which is half the sum of the maximum and minimum for the day.

The rain gage used from 1881 to February, 1893, was a 9-inch conical gage made by Benjamin Pike, and was exposed about 30 feet south of the dwelling in an open space. In February, 1893, a standard Weather Bureau rain gage was received and exposed in a vegetable garden in an open space of more than 60 feet from any building or tree, and about two feet above the surface of the ground.

The following table summarizes the record obtained:

| Month            | Temperature<br>1881-1905. |          |         | Precipitation, in<br>inches,<br>1881-1905. |                   |                   | Average Number of<br>Days,<br>1894-1905. |        |                |         | Prevailing Wind Direction. |
|------------------|---------------------------|----------|---------|--|-------------------|-------------------|--|--------|----------------|---------|----------------------------|
|                  | Mean.                     | Highest. | Lowest. | Average Total.                             | Greatest 24-hour. | Average Snowfall. | Rain, or inch or more.                   | Clear. | Partly Cloudy. | Cloudy. |                            |
| January .....    | 45                        | 78       | 12      | 3.4  | 3.21              | 1.0               | 9  | 9      | 9              | 13      | SW.                        |
| February.....    | 49                        | 80       | 3       | 4.2  | 3.12              | 3.9               | 9  | 10     | 7              | 11      | E.                         |
| March.....       | 55                        | 87       | 20      | 3.7  | 1.91              | T.                | 10                                       | 9      | 10             | 12      | SW.                        |
| April.....       | 62                        | 71       | 32      | 3.1  | 3.75              | 0                 | 8  | 12     | 9              | 9       | S.                         |
| May.....         | 72                        | 101      | 44      | 3.3  | 2.92              | 0                 | 8  | 13     | 10             | 8       | SW.                        |
| June.....        | 77                        | 100      | 53      | 4.9  | 3.38              | 0                 | 12                                       | 9      | 13             | 8       | SW.                        |
| July.....        | 79                        | 104      | 59      | 5.0  | 4.97              | 0                 | 12                                       | 10     | 12             | 9       | SW.                        |
| August.....      | 78                        | 105      | 58      | 5.4  | 3.75              | 0                 | 14                                       | 10     | 11             | 9       | SW.                        |
| September.....   | 74                        | 99       | 42      | 3.2  | 4.60              | 0                 | 8  | 15     | 9              | 6       | E.                         |
| October.....     | 64                        | 89       | 33      | 3.1  | 5.47              | 0                 | 7  | 14     | 8              | 9       | E.                         |
| November.....    | 54                        | 84       | 21      | 2.1  | 2.06              | 0                 | 7  | 13     | 8              | 9       | E.                         |
| December.....    | 47                        | 75       | 6       | 3.0  | 2.90              | 0.2               | 8  | 12     | 8              | 11      | E.                         |
| Average Annual.. | 63                        |          |         | 44.4                                       |                   | 5.1               | 112                                      | 136    | 115            | 114     | SW.                        |

Highest temperature ever recorded,  $105^{\circ}$ , August 20, 1900.

Lowest temperature ever recorded,  $3^{\circ}$ , February 14, 1899.

Greatest monthly precipitation ever recorded, 18.42 inches, June, 1903.

Least monthly precipitation ever recorded, 0.56 inches, October, 1901.

Greatest precipitation ever recorded in 24 consecutive hours, 5.47 inches, October 17th-18th, 1906.

Greatest snowfall ever recorded in one storm, 14.7 inches, February 11th-13th, 1899.

Warmest year, 1900, with an average temperature of  $65.1^{\circ}$ .

Coldest year, 1885, with an average temperature of  $60.5^{\circ}$ .

Wettest year, 1903, with a total precipitation of 59.99 inches.

Driest year, 1886, with a total precipitation of 32.61 inches.

Latest date of killing frost in Spring, April 19, 1905.

Earliest date of killing frost in Autumn, October 11, 1906.

Average date of latest killing frost in Spring, April 1.

Average date of earliest killing frost in Autumn, November 16.

J. W. B.



CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER, 1906.

| STATIONS                              | COUNTIES     | Elevation, feet | Length of record, years | Temperature, in degrees Fahrenheit |                          |         |        |       |                | Precipitation, in inches |                          |                |       | Sky            |                |                |                |    |     | Observations   |                       |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|--------------------------|---------|--------|-------|----------------|--------------------------|--------------------------|----------------|-------|----------------|----------------|----------------|----------------|----|-----|----------------|-----------------------|
|                                       |              |                 |                         | Mean                               | Deviations from the mean | Highest | Lowest | Dates | Greatest daily | Total                    | Deviations from the mean | Greatest daily | Total | Number of days | Number of days | Number of days | Number of days |    |     |                |                       |
| Aiken                                 | Aiken        | 505             | 22                      | 61.2                               | 2.7                      | 79      | 1      | 33    | 20             | 1.35                     | 1.74                     | 0.25           | 0     | 8              | 14             | 9              | 8              | 6  | 11  | ne.            | C. F. McGahan, M. D.  |
| Allendale                             | Barnwell     | 186             | 18                      | 63.2                               | 1.0                      | 84      | 5      | 37    | 20             | 1.25                     | 1.25                     | 0.70           | 0     | 3              | 23             | 0              | 8              | 10 | 14  | ne.            | A. R. Hens            |
| Anderson                              | Anderson     | 704             | 5                       | 66.1                               | 0.0                      | 88      | 5      | 30    | *11            | 31                       | 2.14                     | 0.51           | 1.13  | 0              | 4              | 16             | 1              | 14 | 13  | ne.            | H. H. Russell.        |
| Augusta, Ga.                          | Richmond     | 134             | 55                      | 61.8                               | 1.9                      | 82      | 5      | 34    | 20             | 1.26                     | 1.22                     | 0.55           | 0     | 6              | 12             | 6              | 13             | 13 | ne. | Weather Bureau |                       |
| Barksdale                             | Laurens      | 650             | 5                       |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | J. T. Garrett.        |
| Batesburg                             | Lexington    | 650             | 18                      | 60.7                               | -2.4                     | 85      | 5      | 30    | 20             | 35                       | 2.79                     | 0.49           | 0.91  | 0              | 6              | 15             | 2              | 14 | 11  | ne.            | E. J. Hite.           |
| Beaufort                              | Beaufort     | 20              | 20                      | 68.8                               | 1.9                      | 84      | 3      | 40    | 20             | 30                       | 5.81                     | 2.20           | 2.54  | 0              | 11             | 11             | 10             | 10 | 10  | ne.            | S. M. Benton          |
| Bennettsville                         | Marlboro     | 151             | 5                       | 61.0                               |                          | 83      | 3      | 30    | 12             | 38                       | 0.84                     |                | 0.42  | 0              | 4              | 15             | 5              | 11 | 11  | w.             | C. S. McCall          |
| Blackville                            | Barnwell     | 206             | 18                      | 62.4                               | 1.8                      | 87      | *2     | 33    | 31             | 30                       | 2.04                     | 1.18           | 0.80  | 0              | 9              | 19             | 2              | 10 | 10  | ne.            | G. D. C. Lange        |
| Blair                                 | Fairfield    | 203             | 1                       |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | T. S. McMeekin        |
| Bowman                                | Orangeburg   | 100             | 5                       | 62.9                               |                          | 84      | *1     | 33    | 30             | 33                       | 3.85                     |                | 1.08  | 0              | 3              | 17             | 4              | 10 | 10  | ne.            | B. O. Evans           |
| Calhoun Falls                         | Abbeville    | 508             | 13                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | P. J. Pieber          |
| Camden (1)                            | Kershaw      |                 |                         | 61.0                               |                          | 81      | *5     | 30    | 29             | 34                       | 5.58                     |                | 1.02  | 0              | 5              | 17             | 0              | 14 | 11  | ne.            | J. B. Mickle          |
| Camden (2)                            | Kershaw      | 222             | 10                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | W. C. Brown           |
| Catawba                               | York         |                 |                         |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | James Y. Bruce        |
| Chappell                              | Newberry     | 402             | 1                       |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | W. F. Glenn           |
| Charleston                            | Charleston   | 48              | 37                      | 66.2                               | 0.5                      | 84      | 6      | 44    | 11             | 20                       | 4.67                     | 1.40           | 1.77  | 0              | 7              | 11             | 8              | 12 | 11  | ne.            | Weather Bureau        |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 28                      | 57.8                               | -2.5                     | 80      | 6      | 31    | 12             | 31                       | 1.17                     | 1.50           | 2.14  | 0              | 9              | 14             | 3              | 14 | 14  | ne.            | Weather Bureau        |
| Cheraw (1)                            | Chesterfield | 141             | 18                      | 60.2                               | 1.0                      | 84      | 6      | 30    | 12             | 29                       | 2.70                     | 0.05           | 0.66  | 0              | 9              | 15             | 2              | 14 | 14  | ne.            | W. R. Godfrey         |
| Cheraw (2)                            | Chesterfield | 141             | 13                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | Jno. H. Powe          |
| Clarks Hill                           | Edgefield    | 500             | 4                       | 60.2                               |                          | 82      | 3      | 30    | *11            | 32                       | 2.21                     |                | 0.74  | 0              | 5              | 15             | 2              | 14 | 14  | aw.            | Wm. S. Middleton      |
| Clemson College                       | Oconee       | 850             | 15                      | 60.4                               | 2.7                      | 79      | *20    | 29    | 20             | 31                       | 4.11                     | 1.01           | 1.68  | 0              | 4              | 20             | 1              | 6  | 11  | ne.            | Jno. N. Hook          |
| Columbia                              | Richland     | 351             | 19                      | 61.4                               | 2.2                      | 84      | 5      | 34    | 20             | 31                       | 1.80                     | 0.59           | 1.24  | 0              | 8              | 15             | 3              | 13 | 13  | ne.            | Central Office        |
| Conway                                | Horry        | 25              | 14                      | 61.4                               |                          | 88      | 6      | 34    | *12            | 38                       | 8.14                     | 5.55           | 2.80  | 0              | 9              | 17             | 0              | 14 | 14  | ne.            | P. C. Quattlebaum     |
| Darlington                            | Darlington   | 175             | 11                      | 62.0                               |                          | 87      | 5      | 29    | 12             | 35                       | 3.37                     | 0.37           | 1.16  | 0              | 8              |                |                |    |     |                | A. E. Rowell          |
| Dillon                                | Marion       | 100             | 2                       | 63.2                               |                          | 86      | 6      | 29    | 12             | 37                       | 3.33                     |                | 1.60  | 0              | 4              | 19             | 3              | 9  | 9   | w.             | Rev. O. Y. Bonner     |
| Due West                              | Abbeville    | 730             | 5                       | 61.2                               |                          | 80      | 8      | 32    | 29             | 28                       | 2.65                     | 0.34           | 1.27  | 0              | 4              | 17             | 1              | 13 | 13  | ne.            | Mrs. M. Thompson      |
| Edisto                                | Bamberg      | 127             | 13                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | H. B. McCall          |
| Ellingham                             | Florence     | 106             | 14                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | J. W. King            |
| Enoree                                | Spartanburg  | 987             | 1                       |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | H. K. Gilbert         |
| Florence                              | Florence     | 136             | 18                      | 61.4                               | 1.8                      | 85      | 6      | 33    | *12            | 33                       | 2.18                     | 0.73           | 0.95  | 0              | 4              | 21             | 1              | 9  | 9   | ne.            | B. F. Camp            |
| Gaffney                               | Cherokee     | 893             | 10                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | Reid Whitford         |
| Georgetown                            | Georgetown   | 12              | 13                      | 64.8                               | 0.4                      | 84      | *1     | 37    | 31             | 32                       | 12.15                    | 8.86           | 6.00  | 0              | 6              | 18             | 12             | 1  | 1   | ne.            | Mrs. S. A. Critten    |
| Greenville                            | Greenville   | 989             | 14                      | 56.6                               | -4.3                     | 78      | *26    | 29    | 32             | 34                       | 3.43                     | 0.66           | 1.25  | 0              | 8              | 15             | 2              | 14 | 14  | ne.            | M. M. Calhoun         |
| Greenville                            | Greenville   | 671             | 15                      | 59.0                               | -3.3                     | 77      | *3     | 30    | 29             | 30                       | 2.62                     | 0.16           | 0.92  | 0              | 3              | 16             | 0              | 15 | 15  | ne.            | J. A. Weaver          |
| Heath Spring                          | Lancaster    | 568             | 5                       | 58.6                               |                          | 84      | 5      | 24    | 12             | 34                       | 3.87                     |                | 2.24  | 0              | 11             | 13             | 3              | 15 | 15  | ne.            | J. A. Scott           |
| Kingsree (1)                          | Williamsburg | 54              | 18                      | 65.0                               | +0.2                     | 89      | 5      | 37    | 29             | 29                       | 5.25                     | 1.58           | 2.00  | 0              | 6              | 19             | 0              | 12 | 12  | ne.            | A. O. Matthews        |
| Kingsree (2)                          | Williamsburg | 54              | 12                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | John M. Sease, M. D.  |
| Liberty                               | Pickens      | 400             | 12                      | 58.8                               | 1.2                      | 78      | *25    | 29    | 37             | 34                       | 1.62                     | -1.72          | 0.41  | 0              | 7              | 14             | 5              | 12 | 12  | ne.            | W. G. Peterson        |
| Little Mountain                       | Newberry     | 630             | 14                      | 60.6                               | 4.4                      | 80      | *1     | 33    | *11            | 33                       | 1.02                     | -1.02          | 0.67  | 0              | 11             | 15             | 0              | 16 | 16  | ne.            | John M. Ward          |
| Newberry                              | Newberry     | 502             | 2                       | 60.6                               | -1.7                     | 83      | 6      | 30    | 29             | 33                       | 2.41                     | -1.02          | 1.44  | 0              | 6              | 16             | 5              | 10 | 10  | ne.            | E. P. Ravenel         |
| Polzer                                | Anderson     | 873             | 1                       |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | G. T. Lewis           |
| Pinopolis                             | Berkeley     | 54              | 13                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | J. S. Warramaker      |
| St. George                            | Dorchester   | 109             | 18                      | 64.0                               | -0.1                     | 84      | *3     | 37    | *12            | 36                       | 6.32                     | 1.91           | 4.00  | 0              | 7              | 21             | 0              | 10 | 10  | ne.            | C. T. Shuler          |
| St. Matthews                          | Orangeburg   | 269             | 18                      | 61.4                               | 3.1                      | 82      | 5      | 30    | 12             | 29                       | 3.13                     | 0.67           | 2.50  | 0              | 8              | 16             | 2              | 13 | 13  | ne.            | Alvin Etheridge       |
| St. Stephen                           | Berkeley     | 73              | 14                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | E. W. Jeter           |
| Saluda                                | Saluda       | 516             | 5                       | 60.6                               |                          | 84      | 3      | 31    | 12             | 33                       | 2.68                     | -0.98          | 1.25  | 0              | 6              | 14             | 3              | 14 | 14  | ne.            | Weather Bureau        |
| Santuc                                | Union        | 512             | 13                      | 59.4                               | 2.3                      | 80      | *5     | 29    | 11             | 35                       | 2.01                     | -1.61          | 0.54  | 0              | 10             | 11             | 7              | 13 | 13  | ne.            | H. van Keuren         |
| Savannah, Ga.                         | Chatham      | 71              | 37                      | 65.5                               | -0.9                     | 86      | 3      | 40    | 29             | 23                       | 5.95                     | 1.64           | 2.40  | 0              | 8              | 15             | 0              | 16 | 16  | ne.            | J. J. Lucas           |
| Smiths Mills                          | Williamsburg | 62              | 11                      |                                    |                          |         |        |       |                |                          |                          |                |       |                |                |                |                |    |     |                | F. P. Robinson        |
| Society Hill                          | Darlington   | 192             | 15                      | 60.5                               | 1.3                      | 82      | 6      | 33    | 28             | 32                       | 3.07                     | -0.01          | 1.14  | 0              | 8              | 16             | 0              | 15 | 15  | ne.            | W. W. Anderson, M. D. |
| Spartanburg                           | Spartanburg  | 875             | 15                      | 59.2                               | 1.8                      | 83      | 6      | 28    | 29             | 36                       | 3.70                     | 5.47           | 2.00  | 0              | 6              | 12             | 6              | 13 | 13  | ne.            | Miss E. H. Gadsden    |
| Stateburg                             | Sumter       | 500             | 29                      | 62.8                               | -0.7                     | 83      | 6      | 36    | *11            | 31                       | 6.33                     | 1.34           | 2.40  | 0              | 10             | 13             | 6              | 12 | 12  | sw.            | H. A. Moses           |
| Summerville                           | Dorchester   | 75              | 9                       | 64.3                               | 1.7                      | 87      | *5     | 35    | *11            | 35                       | 6.24                     | -2.34          | 2.40  | 0              | 7              | 15             | 4              | 12 | 12  | ne.            | C. A. Long            |
| Sumter                                | Sumter       | 169             | 5                       | 61.0                               |                          | 90      | 1      | 30    | 29             | 43                       | 5.73                     | 2.10           | 0.48  | 0              | 6              | 14             | 3              | 14 | 14  | ne.            | Elsell Gaillard       |
| Trenton                               | Edgefield    | 620             | 13                      | 59.6                               | -6.4                     | 80      | 5      | 35    | 29             | 29                       | 1.04                     | 2.22           | 0.68  | 0              | 6              | 8              | 11             | 12 | 12  | ne.            | Miss Jessie Douthit   |
| Trials                                | Berkeley     | 85              | 20                      | 63.5                               | +0.4                     | 86      | *3     | 34    | 29             | 36                       | 3.82                     | 1.70           | 1.44  | 0              | 5              | 15             | 12             | 4  | 12  | w.             | J. A. Westberg        |
| Walhalla                              | Oconee       | 1061            | 15                      | 61.2                               | +1.6                     | 84      | 20     | 29    | 11             | 40                       | 5.46                     | 1.44           | 1.44  | 0              | 8              | 13             | 7              | 11 | 11  | ne.            | Weather Bureau        |
| Walterboro                            | Colleton     | 69              | 3                       | 64.5                               |                          | 85      | 6      | 35    | 12             | 25                       | 4.75                     | 1.01           | 3.40  | 0              | 11             | 12             | 8              | 11 | 11  | ne.            | John W. Seigler       |
| Wilmington, N. C.                     | New Hanover  | 52              | 37                      | 64.5                               | +1.0                     | 85      | 6      | 32    | 8              | 32                       | 2.35                     | -0.28          | 1.00  | 0              | 6              | 17             | 9              | 5  | 5   | w.             | E. R. Rivers          |
| Winnboro                              | Fairfield    | 545             | 17                      | 60.6                               | -1.6                     | 82      | 6      | 30    | *11            | 35                       | 4.33                     | 1.15           | 1.50  | 0              | 9              | 14             | 5              | 12 | 12  | ne.            | J. G. Hutson          |
| Winthrop College                      | York         | 690             | 7                       | 59.4                               | 2.7                      | 84      | *5     | 36    | 29             | 27                       | 5.19                     | -2.47          | 2.03  | 0              | 8              | 10             | 3              | 12 | 12  | ne.            | J. R. Schorb          |
| Yemassee                              | Beaufort     | 25              | 11                      | 62.5                               | 3.4                      | 84      | *5     | 36    | 29             | 27                       | 5.19                     | -2.47          | 2.03  | 0              | 8              | 10             | 3              | 12 | 12  | ne.            |                       |
| Yorkville                             | York         | 680             | 18                      | 60.3                               | 1.7                      | 83      | 5      | 32    | *11            | 33                       | 3.14                     |                |       |                |                |                |                |    |     |                |                       |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 61.9                               | 1.7                      | 90      | 1      | 24    | 12             | 40                       | 3.69                     | 1.01           | 6.00  | 0              | 7              | 14             | 6              | 11 | ne. |                |                       |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. \* Maximum thermometer not standard. † Minimum thermometer not standard. ‡ Exposed not standard. \* On other dates also a indicates 1 day missing, b, 2 days, etc. The state of sky at 8 a. m. not used in averages.

Temperature, Rainy Days and Wind.

Precipitation.

| Year. | Mean Temp. | Mean Max. | Mean Min. | Highest Temp. | Lowest Temp. | Rainy Days. | Prevailing Winds. | Year. | State Average. | Greatest Monthly. | Place.         | Least Monthly. | Place.         |
|-------|------------|-----------|-----------|---------------|--------------|-------------|-------------------|-------|----------------|-------------------|----------------|----------------|----------------|
| 1894  | 64.2       | 74.5      | 54.6      | 98            | 33           | 5           | ne.               | 1894  | 4.95           | 8.34              | Santuc.        | 0.47           | Branchville.   |
| 1895  | 61.3       | 74.2      | 48.8      | 95            | 28           | 3           | ne.               | 1895  | 1.15           | 2.71              | Society Hill.  | 0.69           | Allendale.     |
| 1896  | 61.3       | 74.1      | 51.0      | 91            | 28           | 4           | ne.               | 1896  | 1.41           | 2.75              | Spartanburg.   | 0.38           | Allendale.     |
| 1897  | 65.8       | 76.2      | 55.4      | 96            | 35           | 5           | ne.               | 1897  | 3.23           | 7.04              | Charleston.    | 1.20           | Effingham.     |
| 1898  | 62.9       | 72.4      | 52.6      | 90            | 28           | 9           | ne.               | 1898  | 3.82           | 7.81              | Gillisonville. | 1.58           | Society Hill.  |
| 1899  | 64.2       | 74.0      | 54.3      | 91            | 34           | 6           | ne.               | 1899  | 5.00           | 0.63              | Blackville.    | 1.97           | Gaffney.       |
| 1900  | 67.6       | 76.6      | 58.6      | 95            | 33           | 9           | ne.               | 1900  | 3.65           | 8.41              | Smiths Mills.  | 1.79           | Florence.      |
| 1901  | 62.4       | 74.9      | 50.0      | 92            | 29           | 3           | ne.               | 1901  | 0.89           | 2.86              | Trenton.       | 0.47           | Georgetown.    |
| 1902  | 63.2       | 74.3      | 52.0      | 95            | 30           | 7           | ne.               | 1902  | 4.40           | 7.31              | Batesburg.     | 2.24           | Anderson.      |
| 1903  | 62.0       | 74.3      | 49.6      | 93            | 25           | 5           | ne.               | 1903  | 2.63           | 4.68              | Darlington.    | 0.86           | Calhoun Falls. |
| 1904  | 62.4       | 74.8      | 49.9      | 98            | 26           | 3           | ne.               | 1904  | 1.10           | 4.75              | Charleston.    | 0.60           | Walhalla.      |
| 1905  | 64.2       | 75.8      | 52.5      | 93            | 29           | 6           | ne.               | 1905  | 1.97           | 5.23              | Liberty.       | 0.60           | St. George.    |
| 1906  | 61.9       | 71.7      | 52.1      | 90            | 24           | 7           | ne.               | 1906  | 3.69           | 12.15             | Georgetown.    | 0.84           | Bennettsville. |



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

OCTOBER, 1906.

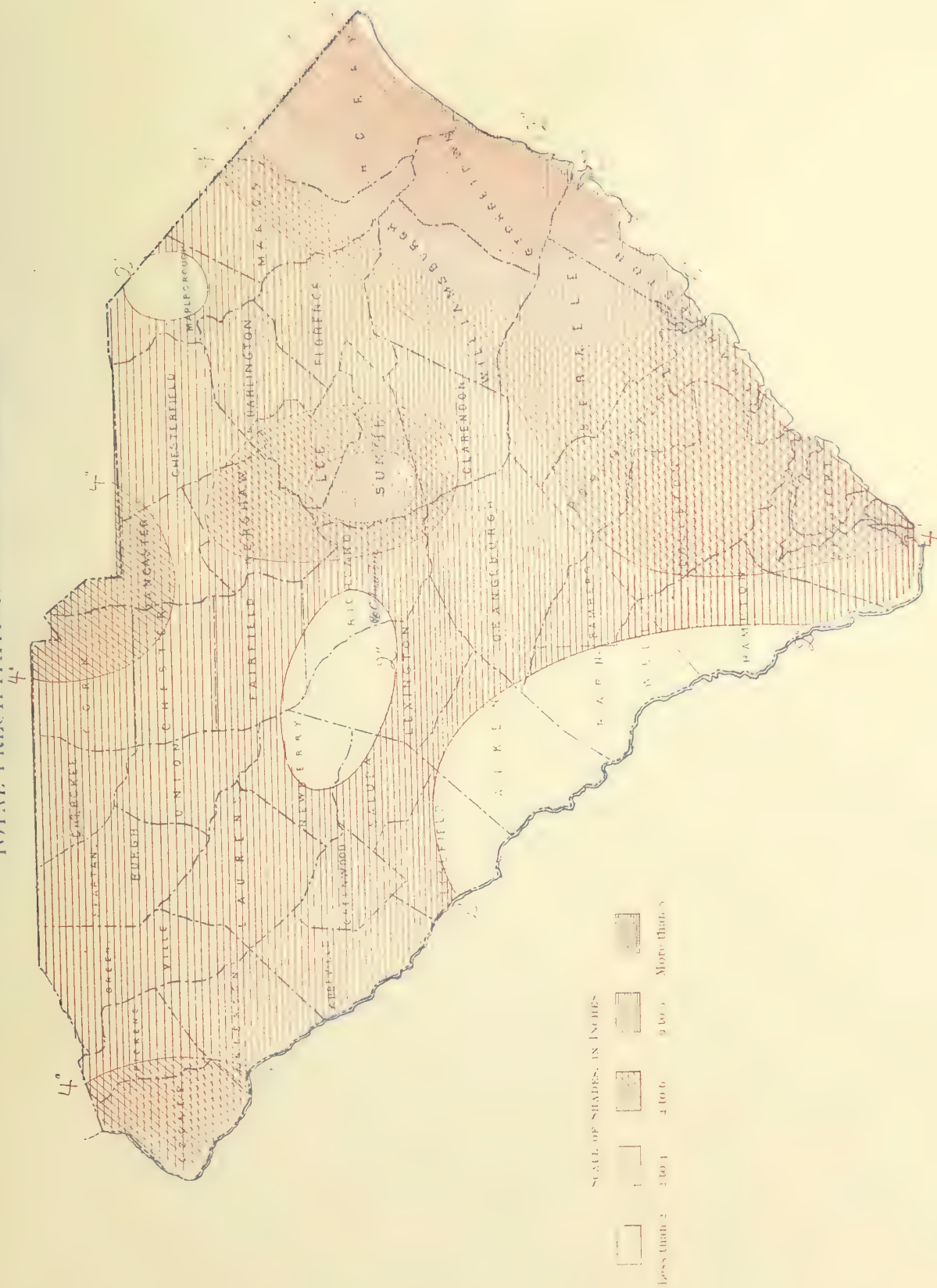
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING OCTOBER, 1906.

| STATIONS. |       | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31   | Monthly mean. |      |      |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------------|------|------|
| Max.      | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max. | Min.          | Max. | Min. |
| 70.56     | 70.56 | 74.57 | 68.55 | 67.59 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 80.70     | 70.59 | 80.84 | 66.51 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 75.62     | 67.59 | 70.78 | 66.78 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 79.64     | 73.82 | 78.66 | 70.78 | 66.78 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 74.65     | 70.59 | 81.63 | 77.65 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 | 60.35 | 62.38 | 69.1 | 53.4          |      |      |
| 78.70     | 75.69 | 84.69 | 69.83 | 67.71 | 65.85 | 62.82 | 66.73 | 66.73 | 66.73 | 68.55 | 67.59 | 62.54 | 57.53 | 55.59 | 42.53 | 66.59 | 43.71 | 59.68 | 58.68 | 68.68 | 73.65 | 77.64 | 73.60 | 70.62 | 74.60 | 75.68 | 46.73 | 44.73 | 61.33 |       |       |      |               |      |      |

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR OCTOBER, 1906.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, OCTOBER, 1906.

| STATIONS.         | Day of Month. |      |      |      |      |     |     |   |     |     |    |    |    |    |     |     |     |     |      |      |      |      |      |     |     |     |    |    |    |    |      | Total. |      |
|-------------------|---------------|------|------|------|------|-----|-----|---|-----|-----|----|----|----|----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|----|----|----|----|------|--------|------|
|                   | 1             | 2    | 3    | 4    | 5    | 6   | 7   | 8 | 9   | 10  | 11 | 12 | 13 | 14 | 15  | 16  | 17  | 18  | 19   | 20   | 21   | 22   | 23   | 24  | 25  | 26  | 27 | 28 | 29 | 30 | 31   |        |      |
| Aiken             |               | .15  | .25  |      |      |     | .10 |   |     |     |    |    |    |    | .20 | .20 |     |     | .25  | .10  |      |      | .10  |     |     |     |    |    |    |    |      | 1.35   |      |
| Allendale         |               | .25  | .30  |      |      |     |     |   |     |     |    |    |    |    |     |     |     |     | .70  |      |      |      |      |     |     |     |    |    |    |    |      | 1.25   |      |
| Anderson          |               | .46  | 1.13 |      |      | .22 |     |   |     |     |    |    |    |    |     |     |     | .60 |      |      |      |      |      |     |     |     |    |    |    |    |      | 2.41   |      |
| Augusta, Ga.      |               | .16  | .46  | .07  |      | .03 |     |   |     |     |    |    |    |    |     |     |     | .50 | .04  | T.   |      |      |      | T.  |     |     |    |    |    |    |      | 1.26   |      |
| Barksdale         |               |      |      |      |      |     |     |   |     |     |    |    |    |    |     |     |     |     |      |      |      |      |      |     |     |     |    |    |    |    |      |        |      |
| Batesburg         |               | .91  | .42  | .31  |      | .23 |     |   |     |     |    |    |    |    |     |     |     |     | .70  |      | .22  |      |      |     |     |     |    |    |    |    |      | 2.79   |      |
| Beaufort          | 2.54          | .13  | .49  |      |      | .14 |     |   |     |     |    |    |    |    |     |     |     | .02 | .19  | .48  | .29  | 1.39 | .02  | T.  |     |     |    |    |    |    |      | 5.84   |      |
| Bennettsville     |               | T.   | .03  |      |      |     |     |   | .17 |     |    |    |    |    |     |     |     |     | .32  | .32  | .17  |      |      |     |     |     |    |    |    |    |      | 0.84   |      |
| Blackville        |               | .40  | .35  |      |      | .10 | .09 |   | .02 |     |    |    |    |    | .04 | .10 | .80 |     |      |      | .14  |      |      |     |     |     |    |    |    |    |      | 2.04   |      |
| Blairs            |               |      |      | .70  |      |     |     |   |     |     |    |    |    |    |     |     |     |     | 1.08 |      | .30  |      |      |     |     |     |    |    |    |    |      | 2.08   |      |
| Bowman            |               |      |      |      |      |     |     |   |     |     |    |    |    |    |     |     |     | T.  | .48  | 1.60 | .32  | 1.45 | T.   | T.  |     |     |    |    |    |    | 3.85 |        |      |
| Calhoun Falls     |               | .64  | .45  | .92  |      | .16 |     |   |     |     |    |    |    |    |     |     |     |     | .89  |      |      |      |      |     |     |     |    |    |    |    |      | 3.06   |      |
| Camden (1)        |               | .03  | T.   | .94  |      | .20 |     |   |     |     |    |    |    |    |     |     |     | T.  | T.   | 1.24 | .79  | .32  | .03  | T.  | T.  | .03 |    |    |    |    |      | 5.58   |      |
| Camden (2)        |               |      | .10  |      | .90  |     | .30 |   |     |     |    |    |    |    |     |     |     |     | 3.94 |      | .22  |      |      |     |     |     |    |    |    |    |      | 5.46   |      |
| Catawba           |               | .96  | T.   |      | .52  | .14 |     |   |     |     |    |    |    |    |     |     |     |     | 2.50 |      | .12  |      |      |     |     |     |    |    |    |    |      | 4.30   |      |
| Chappells         |               |      | .44  | .30  |      |     | T.  |   |     |     |    |    |    |    |     |     |     |     | .94  |      |      |      |      |     |     |     |    |    |    |    |      | 1.68   |      |
| Charleston        | 1.27          | .45  | T.   |      |      | T.  |     |   | .02 |     |    |    |    |    |     |     |     | T.  | 1.63 | .14  | .99  | .17  | T.   | T.  |     |     |    |    |    |    |      | 4.67   |      |
| Charlotte, N. C.  |               | .20  | .72  |      | T.   | .09 |     |   | .08 |     |    |    |    |    |     |     |     | .02 | .01  | .34  | .70  | T.   | .01  |     | T.  | T.  |    |    |    |    |      | 4.17   |      |
| Cheraw (1)        |               | .09  | .45  | .15  |      | T.  | .03 |   |     |     |    |    |    |    |     |     |     | T.  | .08  | .65  | .25  | .96  |      | T.  |     |     |    |    |    |    |      | 2.70   |      |
| Cheraw (2)        |               | .09  | .50  | .24  |      | .03 | .01 |   | T.  |     |    |    |    |    |     |     |     | T.  | .05  | .70  | .30  | 1.08 | T.   |     | .03 | T.  |    |    |    |    |      | 3.03   |      |
| Clark's Hill      |               | .48  | .22  |      |      | .71 |     |   | T.  |     |    |    |    |    |     |     |     | T.  | .74  | .06  | T.   |      |      |     |     |     |    |    |    |    |      | 2.21   |      |
| Clemson College   |               |      | 1.03 | 1.68 |      | .37 |     |   |     |     |    |    |    |    |     |     |     |     | 1.03 |      |      |      |      |     |     |     |    |    |    |    |      | 4.11   |      |
| Columbia          |               | .02  | .15  | .20  |      | .09 |     |   |     |     |    |    |    |    |     |     |     | T.  | 1.13 | .12  | .07  |      | T.   |     | .02 |     |    |    |    |    |      | 1.80   |      |
| Conway            |               | .35  | 1.22 | .65  | 1.72 |     |     |   | T.  |     |    |    |    |    |     |     |     | T.  | .35  | .25  | .75  | 2.80 | .05  |     |     |     |    |    |    |    |      | 8.14   |      |
| Darlington        |               | .21  | .03  | 1.02 |      | .03 |     |   |     |     |    |    |    |    |     |     |     | T.  | .42  | .96  | .70  | .01  | T.   |     | .01 |     |    |    |    |    |      | 3.37   |      |
| Dillon            |               | .56  |      | 1.16 |      | .01 |     |   | T.  |     |    |    |    |    |     |     |     | T.  | .42  | .26  | .78  | T.   | T.   | T.  | .12 | .02 |    |    |    |    |      |        | 3.33 |
| Due West          |               | T.   | .51  | 1.60 |      | .16 |     |   |     |     |    |    |    |    |     |     |     |     | .03  |      |      |      |      |     |     |     |    |    |    |    |      | 2.90   |      |
| Edisto            |               |      | 1.23 |      |      |     |     |   |     |     |    |    |    |    |     |     |     |     | .76  |      |      |      | .25  | .41 |     |     |    |    |    |    |      | 2.65   |      |
| Effingham         |               |      | .50  | .75  |      |     |     |   |     |     |    |    |    |    |     |     |     |     | .25  | 1.00 | .50  |      |      |     |     |     |    |    |    |    |      | 3.00   |      |
| Enoree            |               |      | .95  | .86  |      | .10 |     |   |     |     |    |    |    |    |     |     |     | T.  |      | .95  | T.   |      |      |     |     |     |    |    |    |    |      | 2.80   |      |
| Florence          |               |      | .28  | .26  | .40  |     | T.  |   |     |     |    |    |    |    |     |     |     | T.  | .10  | .42  | .67  | .05  |      |     |     |     |    |    |    |    |      | 2.18   |      |
| Gaffney           |               |      |      |      |      |     |     |   |     |     |    |    |    |    |     |     |     |     |      |      |      |      |      |     |     |     |    |    |    |    |      |        |      |
| Georgetown        | 3.00          | .32  |      |      |      |     |     |   |     |     |    |    |    |    |     |     |     | T.  | 1.73 | T.   | .60  | 6.00 | .50  |     |     |     |    |    |    |    |      | 12.15  |      |
| Greenville        |               | 1.25 | .65  | .60  | .02  | .25 |     |   |     |     |    |    |    |    |     |     |     |     | .01  | .15  | .50  |      | T.   |     |     |     |    |    |    |    |      | 3.43   |      |
| Greenwood         |               |      | .92  | .80  |      |     |     |   |     |     |    |    |    |    |     |     |     |     |      | .90  |      |      |      |     |     |     |    |    |    |    |      |        | 2.62 |
| Heath Spring      |               | .15  | .25  | .35  | .10  |     |     |   |     |     |    |    |    |    |     |     |     | .09 | .50  | 2.24 | .11  | .06  | .01  | .01 |     |     |    |    |    |    |      | 3.87   |      |
| Kingstree (1)     |               | .03  | .52  | .55  | .76  |     |     |   |     |     |    |    |    |    |     |     |     |     | 1.12 | 1.58 | .14  | 1.55 | .02  | .01 |     |     |    |    |    |    |      | 5.28   |      |
| Kingstree (2)     |               | .41  | .50  | .52  |      |     |     |   |     |     |    |    |    |    |     |     |     |     | 2.00 | 1.2  | 1.60 |      |      |     |     |     |    |    |    |    |      | 5.15   |      |
| Liberty           |               | .10  | 1.00 | 1.80 |      | T.  | .40 |   |     |     |    |    |    |    |     |     |     | T.  | T.   | .70  |      |      |      |     |     |     |    |    |    |    |      | 3.40   |      |
| Little Mountain   |               | .08  | .06  | .36  |      | .41 |     |   |     |     |    |    |    |    |     |     |     |     | .40  | .27  | .04  |      |      |     |     |     |    |    |    |    |      | 1.62   |      |
| Newberry          |               | .23  | .65  | .25  |      | .08 | .18 |   |     |     |    |    |    |    |     |     |     | .01 | .01  | .67  | .06  | .26  |      | .01 |     |     |    |    |    |    |      | 2.41   |      |
| Pelzer            |               |      | .78  | 1.44 | .34  | .10 |     |   |     |     |    |    |    |    |     |     |     |     | .02  |      | .65  |      |      |     |     |     |    |    |    |    |      | 3.33   |      |
| Pinopolis         |               |      |      |      |      |     |     |   |     |     |    |    |    |    |     |     |     |     |      |      |      |      |      |     |     |     |    |    |    |    |      |        |      |
| St. George        |               | .13  | .10  | .30  | .42  |     |     |   |     |     |    |    |    |    |     |     |     |     |      | 4.00 |      | 1.20 | .17  |     |     |     |    |    |    |    |      | 6.32   |      |
| St. Matthews      |               |      | .05  | .28  |      | .05 |     |   |     |     |    |    |    |    |     |     |     |     |      | 2.50 | .05  | .15  | .05  |     |     |     |    |    |    |    |      | 3.13   |      |
| St. Stephen       |               |      | .65  | .25  | .15  |     |     |   |     |     |    |    |    |    |     |     |     |     | .21  | 1.03 | .10  | 2.30 | .12  |     |     |     |    |    |    |    |      | 4.81   |      |
| Saluda            |               | .20  | .24  | .57  |      | .63 |     |   |     |     |    |    |    |    |     |     |     |     |      | .31  | .31  | .02  |      |     |     |     |    |    |    |    |      | 2.28   |      |
| Santuc            |               | T.   | .27  | 1.25 | .09  | T.  |     |   |     |     |    |    |    |    |     |     |     | T.  | T.   | .25  | .81  | .01  | T.   | T.  | T.  |     |    |    |    |    |      | 2.68   |      |
| Savannah, Ga.     |               | .54  | .50  | T.   |      | .01 |     |   | .09 |     |    |    |    |    |     |     |     | .01 | .04  | .35  | .05  | .35  | .07  | T.  | T.  |     |    |    |    |    |      | 2.01   |      |
| Smiths Mills      |               | T.   | .90  | .60  | 1.25 |     |     |   |     | .10 |    |    |    |    |     |     |     |     | .20  | .40  |      | 2.40 |      |     |     |     |    |    |    |    |      | 5.95   |      |
| Society Hill      |               |      | .73  | .28  |      |     |     |   |     |     |    |    |    |    |     |     |     | .16 | 1.20 | .54  | .78  | .01  |      |     |     | .10 |    |    |    |    |      | 3.70   |      |
| Spartanburg       |               | T.   | .58  | .56  | .40  | .20 |     |   |     |     |    |    |    |    |     |     |     | T.  | .08  | 1.14 | .08  | T.   |      |     |     |     |    |    |    |    |      | 3.07   |      |
| Stateburg         |               | .03  | .05  | .56  |      | T.  |     |   |     |     |    |    |    |    |     |     |     |     | .12  | 5.47 |      | .10  |      |     |     |     |    |    |    |    |      | 6.33   |      |
| Summerville       |               | .24  | .11  | .87  | .02  | .01 |     |   | T.  |     |    |    |    |    |     |     |     | T.  | T.   | .68  | .60  | 1.28 | 2.40 | T.  | .03 |     |    |    |    |    |      | 6.24   |      |
| Sumter            |               | .25  | .13  | 1.65 |      |     |     |   |     |     |    |    |    |    |     |     |     |     | 1.25 | 2.00 | .25  | .20  |      |     |     |     |    |    |    |    |      | 5.73   |      |
| Trenton           |               | .05  | .48  | .18  |      | .45 |     |   |     |     |    |    |    |    |     |     |     | T.  | T.   | .31  | .17  | T.   |      |     |     |     |    |    |    |    |      | 1.64   |      |
| Trial             |               | .26  | .20  | T.   |      | .03 |     |   |     |     |    |    |    |    |     |     |     |     | 2.22 | .09  |      | 1.42 |      |     |     |     |    |    |    |    |      | 3.82   |      |
| Walhalla          |               | .10  | 1.70 | 1.55 |      | .59 |     |   |     |     |    |    |    |    |     |     |     |     | 1.50 |      |      |      |      |     |     |     |    |    |    |    |      | 5.44   |      |
| Walterboro        |               | .59  | .15  | .32  | .01  |     |     |   |     |     |    |    |    |    |     |     |     | T.  | .78  | .57  | .30  | 1.44 |      |     |     |     |    |    |    |    |      | 4.16   |      |
| Wilmington, N. C. | 3.30          | .10  | .11  |      | T.   |     |     |   | .03 |     |    |    |    |    |     |     |     | .06 | T.   | .17  | .19  | .72  | T.   |     | .07 |     |    |    |    |    |      | 4.75   |      |
| Windsboro         |               | T.   | .20  | .40  | 1.00 |     |     |   |     |     |    |    |    |    |     |     |     |     | 1.00 | .70  | .05  |      |      |     |     |     |    |    |    |    |      | 2.35   |      |
| Winthrop College  |               | T.   | .04  | .40  | .65  | .36 |     |   |     |     |    |    |    |    |     |     |     | T.  | T.   | 1.30 | 1.50 | .02  |      | .04 | .02 |     |    |    |    |    |      | 4.33   |      |
| Yemassee          | 1.25          | .57  | .27  | .04  |      |     |     |   | .09 |     |    |    |    |    |     |     |     |     | T.   | .84  |      |      |      |     |     |     |    |    |    |    |      | 5.19   |      |
| Yorkville         |               | T.   | .13  | .50  | .18  | .08 |     |   | .05 |     |    |    |    |    |     |     |     | T.  | T.   | 1.03 | 1.17 |      |      |     |     |     |    |    |    |    |      | 3.14   |      |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR NOVEMBER, 1906.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

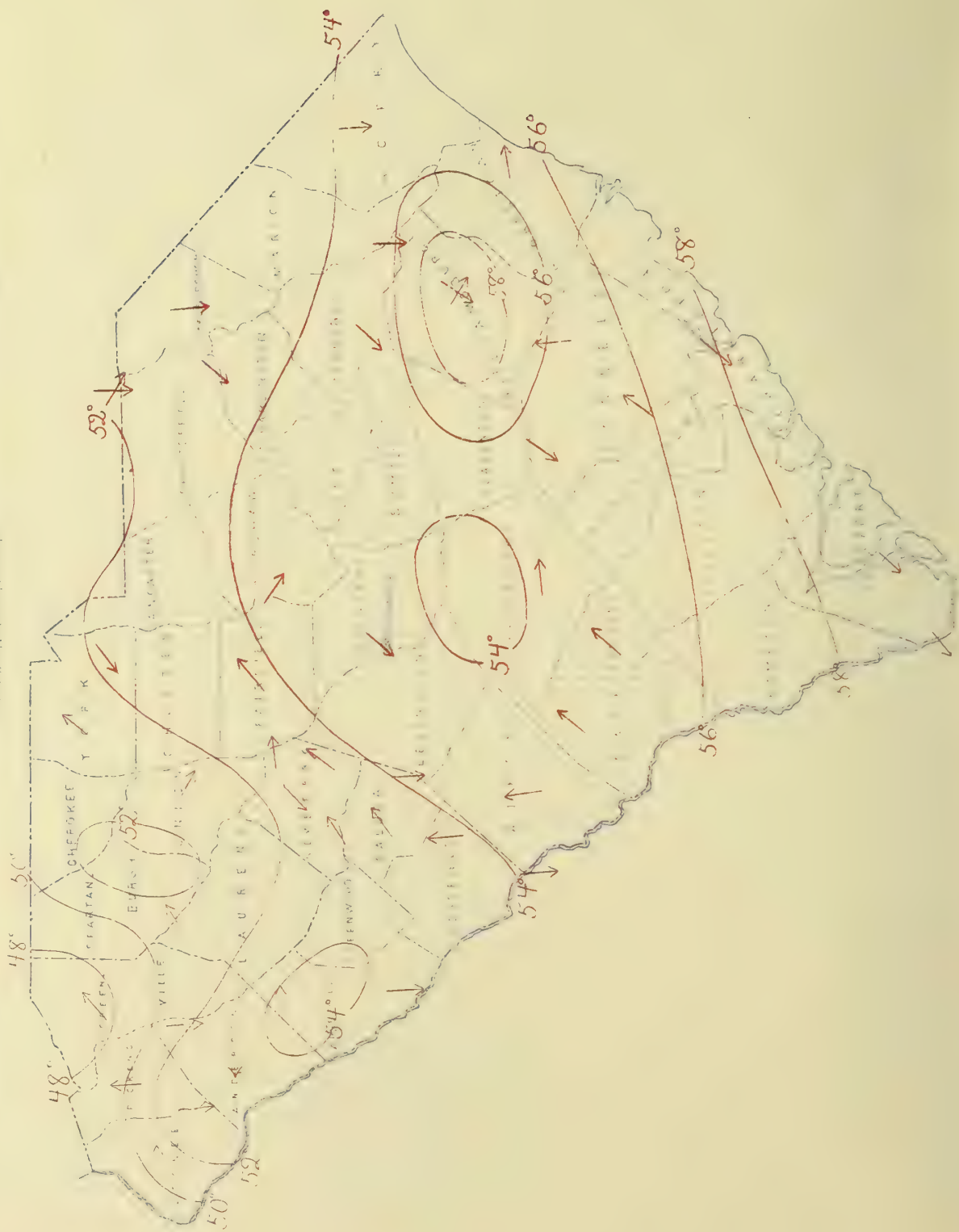
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

DECEMBER 22, 1906.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR NOVEMBER, 1906





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. IX. COLUMBIA, S. C., NOVEMBER, 1906. No. 11.

## GENERAL SUMMARY.

The weather was generally clear and pleasant from the 1st to the 10th, but the temperature was unusually low from the 1st to the 7th, and was high from the 8th to the 11th, the maximum temperature for the month having been recorded at a few stations on the 9th and 10th. There was no precipitation from the 1st to the 10th, inclusive. A general rainy period began on the 11th, with thunderstorms in the central and northeastern portions, and continued to the 20th, mostly as widely scattered light showers, except on the 14th when the precipitation area extended over the entire State, as rain, sleet, and snow in the western and central portions, and as rain only in the eastern portion.

The snowfall in the northwestern counties was the heaviest of record for November, from one to over four inches having fallen over a wide area, of which from a trace to three inches remained on the ground for several days, while the rest melted as it fell. In the central and middle western counties the precipitation consisted of rain, sleet and snow. The sleet and snow melted as they fell.

The temperature was unusually low on the 13th and 14th, causing the minimum temperatures for the month on these dates at all stations. A period of abnormally high temperatures occurred from the 17th to the 23rd, and the maximum temperatures for the month were noted at all but a few stations from the 18th to the 22nd. Thunderstorms occurred in the western counties on the 18th.

The temperature was below normal from the 24th to the end of the month.

There was no precipitation after the 20th in any part of the State, and the weather was generally clear with only occasional short periods of cloudiness.

Frosts were noted on an unusually large number of days. The first killing frost of the season occurred at a small number of stations on the 1st, at some stations on the 12th and 13th, and on the immediate coast on the 16th.

The mean temperature for the month was about normal, but the daily departures were at times from  $15^{\circ}$  to  $20^{\circ}$  both above and below normal. The average precipitation was below normal and it was the smallest of record in the past 13 years. It was evenly distributed except that slightly larger

amounts were noted in the extreme eastern and western portions than in the other parts of the State. The average number of clear days was larger than usual, and the average number of cloudy days was the smallest of record.

## Temperature.

The mean for November, 1906, was  $53.8^{\circ}$ , which is  $0.1^{\circ}$  above normal. The highest local mean was  $58.6^{\circ}$  at Beaufort and Charleston, the lowest was  $47.9^{\circ}$  at Greenville. The monthly extremes of temperature were a maximum of  $89^{\circ}$  at Blackville on the 9th, and a minimum of  $20^{\circ}$  at Greenville on the 13th and 14th, making the State range  $79^{\circ}$ . The greatest local monthly range was  $61^{\circ}$  at Walterboro, the least was  $43^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $66.7^{\circ}$ , and of the daily minimum temperatures was  $41.0^{\circ}$ , making the average daily range  $15.7^{\circ}$ .

## Precipitation.

The average precipitation was 0.96 of an inch, which is 1.84 inches below normal. The greatest local amount was 2.36 inches at Walhalla, the least was "trace" at Winnsboro. The greatest 24-hour rainfall was 1.33 inches at Walhalla on the 18th. The average number of days with 0.01 of an inch, or more, precipitation was 3, ranging from none at Winnsboro to 6 days at Anderson.

## Wind.

The prevailing direction of the wind was from the northeast at 13 stations, from the southwest at 11 stations, from the northwest at 8 stations, from the north at 7 stations, from the west at 3 stations, and from the east and the southeast at 1 station each.

## Sunshine and Cloudiness.

The average number of clear days was 18, of partly cloudy days was 8, and of cloudy days was 4.

## MISCELLANEOUS PHENOMENA.

SOLAR HALO.—At Charleston on the 1st.

LUNAR HALO.—At Liberty on the 20th.

PARHELIA.—At Beaufort and Santuc on the 14th.

HIGH WINDS.—At Camden on the 27th; at Charleston on the 1st; at Liberty on the 9th, 11th; at Stateburg on the 11th.

DENSE FOGS.—At Beaufort on the 19th, 20th; at Blackville on the 15th; at Camden, Society Hill, Stateburg, Winthrop College, on the 20th; at Charleston, Georgetown on the 19th; at Columbia on the 14th, 20th; at Yorkville on the 8th.

THUNDERSTORMS.—There were nine thunderstorms on two dates, as follows: at Camden, Columbia, Saluda, Society Hill, Stateburg on the 11th; at Liberty, Greenville, Santuc, Yorkville on the 18th.

SLEET.—Sleet was reported from the following stations: At



Beaufort, Bowman, Camden, Cheraw, Columbia, Little Mountain, Newberry, Society Hill, Stateburg, Sumter, Trenton on the 14th; at Darlington on the 15th.

**SNOW.**—Snow fell over the western and central parts of the State on the 14th, varying in depth from "trace" to slightly over four inches, the heaviest snowfall having occurred in the northwestern counties, where it remained on the ground several days, while in the central parts of the State the snow melted as it fell.

**KILLING FROSTS.**—The first killing frost of the season was noted at the following stations during November, and this list is supplementary to the one published in the October Monthly Report: At Aiken, Allendale on the 12th; at Beaufort, Conway on the 14th; at Bowman on the 2nd; at Camden Kingstree, Little Mountain, St. Stephens, Summerville, Winnsboro on the 1st; at Charleston, Clarks Hill on the 16th; at Sumter on the 15th.

#### REMARKS BY OBSERVERS.

**BEAUFORT.**—The month was very dry, the precipitation having been 2.01 inches below normal. **BENNETTSVILLE.**—The greater portion of the month was dry with bright sunshine. **BOWMAN.**—The month was noteworthy for the small amount of precipitation and for the large number of clear days and generally pleasant weather. **GREENVILLE.**—Snow began falling on the 14th at 12.30 p. m. and ended at about 5 p. m., with a depth of three inches on the ground at that time and about one inch melted as it fell. **LIBERTY.**—The greater portion of the month had favorable weather. **NEWBERRY.**—The month as a whole was cool, but the weather was exceedingly pleasant during the greater portion. **SANTUC.**—The greater portion of the month had fair weather. There were a few abnormally warm days. Streams were lower than during any other month of the year. **TRENTON.**—The sleet that fell on the 14th melted as it fell. By the end of the month, the total precipitation since January 1st was 6.44 inches more than the normal for the same time.

#### BAROMETER AND WIND TABLE FOR NOVEMBER, 1906.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.18      | 30.51    | 30    | 29.78   | 11    | 3.770           | 5.2             | 30                | w.         | 11    |
| Charleston.       | 30.17      | 30.51    | 30    | 29.73   | 15    | 6.774           | 9.4             | 32                | n.         | 1     |
| Charlotte, N. C.  | 30.18      | 30.51    | 30    | 29.74   | 11    | 4.702           | 6.5             | 30                | sw.        | 11    |
| Columbia.         | 30.18      | 30.54    | 30    | 29.74   | 11    | 4.392           | 6.1             | 26                | sw.        | 18    |
| Savannah, Ga.     | 30.18      | 30.49    | 30    | 29.75   | 15    | 5.036           | 7.0             | 24                | sw.        | *14   |
| Wilmington, N. C. | 30.18      | 30.53    | 30    | 29.67   | 15    | 4.909           | 6.8             | 23                | s.         | 18    |
| Averages.         | 30.18      | 30.54    | 30    | 29.67   | 15    | 4.930           | 6.8             | 32                | n.         | 1     |

\* and 18.

#### RIVER GAGE READINGS, NOVEMBER, 1906.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 1.7   | 2.5      | 17    | 1.0     | 13    |
| Calhoun Falls    | 3.3   | 7.9      | 19    | 2.7     | *16   |
| Camden           | 9.1   | 21.5     | 21    | 7.0     | 5     |
| Catawba          | 3.2   | 7.9      | 21    | 2.4     | *9    |
| Chappells        | 3.1   | 4.0      | *16   | 1.9     | 15    |
| Cheraw           | 4.5   | 17.4     | 23    | 2.9     | *13   |
| Columbia         | 1.3   | 2.4      | 21    | 0.8     | 11    |
| Edisto           | 2.8   | 3.4      | 21    | 2.0     | 6     |
| Effingham        | 4.3   | 6.6      | 1     | 3.2     | *29   |
| Kingstree        | 6.9   | 9.0      | 1     | 5.0     | *15   |
| Mt. Holly, N. C. | 2.3   | 9.4      | 20    | 1.8     | *9    |
| Pelzer           | 3.6   | 4.0      | *20   | 3.0     | *5    |
| Rumini           | 9.3   | 11.3     | 23    | 7.0     | 15    |
| St. Stephens     | 7.6   | 9.6      | 1     | 6.2     | *14   |
| Smiths Mills     | 8.1   | 13.3     | 1     | 5.5     | *17   |

\* On other dates also.

#### ERRATA.

The following corrections should be made in the October, 1906, number of the Monthly Report. On page 77, the mean temperature at Bowman, 62.9°, should be 63.0°; at Little Mountain the highest temperature, 80°, on the 1st, should be 81° on the 1st. On pages 77 and 80, at Trial the total precipitation, 3.82, should be 4.22; at Winnsboro the total precipitation, 2.35, should be 3.35. On page 78, at Bowman the mean maximum temperature, 72.9°, should be 73.0°.

#### COMPARATIVE DATA FOR NOVEMBER—13 YEARS.

| Year.      | Temperature. |                  |                  |          |          | Precipitation. |                   |                |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |        |
|------------|--------------|------------------|------------------|----------|----------|----------------|-------------------|----------------|----------------|--------------------------|----------------------------------|--------|
|            | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                | Least Monthly. |                          |                                  |        |
|            |              |                  |                  |          |          |                | Amount.           | Place.         | Amount.        |                          |                                  | Place. |
| 1894 ..... | 52.3         | 62.7             | 42.3             | 83       | 17       | 2.02           | 4.20              | Pinopolis.     | 0.61           | Spartanburg.             | 4                                | nw.    |
| 1895 ..... | 54.4         | 64.7             | 44.4             | 88       | 21       | 2.35           | 4.46              | Pinopolis.     | 0.40           | Shaw's Fork.             | 6                                | ne.    |
| 1896 ..... | 59.1         | 70.0             | 48.6             | 90       | 26       | 4.00           | 9.84              | Greenville.    | 1.12           | St. Matthews.            | 7                                | ne.    |
| 1897 ..... | 55.3         | 66.9             | 43.7             | 88       | 23       | 1.99           | 5.05              | Gaffney.       | 0.26           | Gillisonville.           | 5                                | sw.    |
| 1898 ..... | 51.0         | 61.1             | 41.0             | 82       | 14       | 4.72           | 6.41              | Gillisonville. | 2.58           | Yorkville.               | 9                                | ne.    |
| 1899 ..... | 55.0         | 65.8             | 44.1             | 86       | 22       | 2.41           | 8.10              | Georgetown.    | 0.72           | Florence.                | 5                                | ne.    |
| 1900 ..... | 55.6         | 66.6             | 44.6             | 92       | 22       | 3.32           | 5.45              | Spartanburg.   | 1.50           | Georgetown.              | 6                                | sw.    |
| 1901 ..... | 48.2         | 60.2             | 36.2             | 85       | 17       | 1.01           | 3.10              | Georgetown.    | 3.36           | Winnsboro.               | 5                                | n.     |
| 1902 ..... | 59.2         | 69.5             | 48.8             | 89       | 22       | 3.80           | 7.01              | Greenville.    | 1.70           | Calhoun Falls.           | 6                                | ne.    |
| 1903 ..... | 50.9         | 61.5             | 40.3             | 86       | 10       | 1.40           | 3.17              | Batesburg.     | T.             | Georgetown.              | 5                                | n.     |
| 1904 ..... | 51.6         | 63.5             | 39.7             | 80       | 22       | 2.78           | 4.39              | Yorkville.     | 1.20           | Conway.                  | 6                                | w.     |
| 1905 ..... | 54.5         | 66.7             | 42.3             | 90       | 21       | 1.31           | 2.41              | Liberty.       | 0.00           | St. George.              | 3                                | sw.    |
| 1906 ..... | 53.8         | 66.7             | 41.0             | 89       | 20       | 0.96           | 2.36              | Walhalla.      | T.             | Winnsboro.               | 3                                | ne.    |



CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER, 1906.

|                  |              | Temperature |    |                   |                              |      |                          |         |      |        |      | Precipitation |      |                                      |       |                                      |        |     |     |     |     | Sky |     |     |     |     |     |     |     |     |     | Observer |     |     |     |     |                        |
|------------------|--------------|-------------|----|-------------------|------------------------------|------|--------------------------|---------|------|--------|------|---------------|------|--------------------------------------|-------|--------------------------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----|------------------------|
| STATIONS         |              | COUNTIES    |    | Elevation<br>feet | Length of<br>record<br>years | Mean | Departure<br>from normal | Highest | Date | Lowest | Date | Range         | Mean | Days<br>with<br>falling<br>barometer | Total | Days<br>with<br>falling<br>barometer | Traces | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 |          | 1.5 | 1.6 | 1.7 | 1.8 | 1.9                    |
| Aiken            | Aiken        | 975         | 22 | 53.8              | -1.1                         | 79   | 18                       | 20      | 13   | 41     | 1.25 | -1.44         | 0.75 | 0                                    | 0     | 3                                    | 1      | 6   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0   | 0   | 0   | C. F. McGahan, M. D.   |
| Abbeville        | Abbeville    | 186         | 18 | 53.2              | -2.3                         | 82   | 18                       | 20      | 13   | 41     | 1.00 | -1.42         | 0.60 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | A. R. Hiers.           |
| Anderson         | Anderson     | 704         | 5  | 53.0              | +2.9                         | 78   | 18                       | 24      | 1    | 10     | 1.33 | -1.92         | 0.60 | 2.0                                  | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | H. H. Russell.         |
| Augusta, Ga.     | Richmond     | 134         | 32 | 54.8              | -1.5                         | 80   | 18                       | 20      | 11   | 28     | 0.95 | -2.10         | 0.75 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Weather Bureau         |
| Parkside         | Laurens      | 680         | 5  | 53.8              | -0.7                         | 79   | 10                       | 28      | 14   | 17     | 1.05 | -1.99         | 0.54 | 0                                    | 0     | 2                                    | 2      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | J. T. Garrett.         |
| Batesburg        | Lexington    | 656         | 18 | 54.8              | -0.7                         | 79   | 10                       | 28      | 14   | 17     | 1.05 | -1.99         | 0.54 | 0                                    | 0     | 2                                    | 2      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | E. J. Hite.            |
| Beaufort         | Beaufort     | 20          | 20 | 58.6              | -0.7                         | 81   | 20                       | 30      | 14   | 33     | 0.42 | -1.83         | 0.36 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | S. M. Benton.          |
| Bennettsville    | Marlboro     | 151         | 5  | 53.8              | -1.8                         | 81   | 18                       | 21      | 14   | 11     | 0.80 | -1.99         | 0.59 | 0                                    | 0     | 2                                    | 2      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | C. S. McCall.          |
| Blackville       | Barnwell     | 266         | 18 | 53.8              | -0.1                         | 80   | 0                        | 20      | 13   | 39     | 0.90 | -1.18         | 0.70 | 0                                    | 0     | 2                                    | 2      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | G. D. C. Lange.        |
| Blair            | Fairfield    | 203         | 1  | 53.8              | -0.1                         | 80   | 0                        | 20      | 13   | 39     | 0.90 | -1.18         | 0.46 | 4.0                                  | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | T. S. McMeekin.        |
| Bowman           | Orangeburg   | 160         | 5  | 54.1              | -0.1                         | 81   | 19                       | 25      | 14   | 41     | 1.08 | -1.99         | 0.78 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | B. O. Evans.           |
| Calhoun Falls    | Abbeville    | 568         | 13 | 54.1              | -0.1                         | 81   | 19                       | 25      | 14   | 41     | 1.08 | -1.99         | 0.58 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | P. J. Pender.          |
| Camden (1)       | Kershaw      | 222         | 40 | 54.0              | -0.1                         | 77   | 21                       | 20      | 13   | 36     | 0.71 | -1.82         | 0.51 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | J. B. Mickle.          |
| Camden (2)       | Kershaw      | 222         | 40 | 54.0              | -0.1                         | 77   | 21                       | 20      | 13   | 36     | 0.71 | -1.82         | 0.52 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | W. C. Brown.           |
| Canawha          | York         | 402         | 1  | 53.8              | -0.1                         | 80   | 0                        | 20      | 13   | 39     | 0.90 | -1.18         | 0.05 | 0                                    | 0     | 0                                    | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0   | 0   | 0   | James Y. Bruce.        |
| Chapin           | Newberry     | 48          | 37 | 58.6              | +1.0                         | 78   | 22                       | 35      | 16   | 27     | 0.38 | -2.62         | 0.38 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | W. F. Glenn.           |
| Charleston       | Charleston   | 808         | 28 | 52.4              | +2.5                         | 77   | 19                       | 28      | 11   | 32     | 1.07 | -1.98         | 0.51 | 1.5                                  | 0     | 5                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Weather Bureau.        |
| Charlotte, N. C. | Mecklenburg  | 114         | 18 | 52.6              | -0.2                         | 80   | 19                       | 22      | 14   | 11     | 0.65 | -1.55         | 0.64 | 0                                    | 0     | 2                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Weather Bureau.        |
| Cheraw (1)       | Chesterfield | 114         | 13 | 52.6              | -0.2                         | 80   | 19                       | 22      | 14   | 11     | 0.69 | -2.23         | 0.63 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | W. R. Godfrey.         |
| Cheraw (2)       | Chesterfield | 114         | 13 | 52.6              | -0.2                         | 80   | 19                       | 22      | 14   | 11     | 0.69 | -2.23         | 0.63 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Jno. H. Powe.          |
| Clarks Hill      | Edgefield    | 500         | 4  | 52.8              | -0.2                         | 79   | 22                       | 24      | 13   | 43     | 0.97 | -2.43         | 0.50 | 0                                    | 0     | 2                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Wm. S. Middleton.      |
| Clemson College  | Oconee       | 850         | 15 | 51.0              | -0.2                         | 75   | 9                        | 24      | 14   | 41     | 1.66 | -1.55         | 0.68 | 4.0                                  | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Jno. N. Hook.          |
| Columbia         | Richland     | 351         | 19 | 54.6              | -0.2                         | 79   | 21                       | 26      | 14   | 34     | 0.80 | -1.84         | 0.50 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Central Office.        |
| Conway           | Horry        | 25          | 14 | 54.1              | -0.1                         | 81   | 22                       | 20      | 14   | 41     | 2.15 | -0.61         | 0.00 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | P. C. Quantzbaum.      |
| Darlington       | Darlington   | 175         | 11 | 51.1              | -0.1                         | 80   | 11                       | 23      | 14   | 39     | 1.01 | -1.86         | 0.75 | 0                                    | 0     | 2                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | D. C. McCall.          |
| Dillon           | Marion       | 100         | 2  | 51.1              | -0.1                         | 82   | 18                       | 22      | 14   | 47     | 1.33 | -0.82         | 0.82 | 0                                    | 0     | 4                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | A. E. Rowell.          |
| Due West         | Abbeville    | 730         | 5  | 54.7              | -0.1                         | 77   | 19                       | 25      | 14   | 35     | 2.23 | -0.73         | 1.8  | 4                                    | 1     | 2                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Rev. O. Y. Bonner.     |
| Edisto           | Bamberg      | 127         | 13 | 54.7              | -0.1                         | 77   | 19                       | 25      | 14   | 35     | 2.23 | -0.73         | 0.91 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Mrs. M. Thompson.      |
| Ellingham        | Florence     | 106         | 14 | 54.7              | -0.1                         | 77   | 19                       | 25      | 14   | 35     | 2.23 | -0.73         | 0.91 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | H. B. McCall.          |
| Enoree           | Spartanburg  | 987         | 1  | 54.7              | -0.1                         | 77   | 19                       | 25      | 14   | 35     | 2.23 | -0.73         | 0.91 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | J. W. Kug.             |
| Florence         | Florence     | 136         | 18 | 54.7              | -0.1                         | 77   | 19                       | 25      | 14   | 35     | 2.23 | -0.73         | 0.91 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | H. K. Gilbert.         |
| Gaffney          | Cherokee     | 893         | 10 | 54.7              | -0.1                         | 77   | 19                       | 25      | 14   | 35     | 2.23 | -0.73         | 0.91 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | B. F. Camp.            |
| Georgetown       | Georgetown   | 12          | 13 | 55.6              | +1.1                         | 80   | 22                       | 29      | 13   | 30     | 0.50 | -2.00         | 0.50 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Reid Whitford.         |
| Greenville       | Greenville   | 989         | 14 | 47.9              | -2.6                         | 75   | 10                       | 20      | 13   | 46     | 1.30 | -2.60         | 0.45 | 0                                    | 0     | 4                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | Mrs. S. A. Crittenden. |
| Greenwood        | Greenwood    | 671         | 18 | 50.9              | +1.5                         | 75   | 10                       | 24      | 14   | 36     | 0.72 | -2.32         | 0.42 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | M. M. Calhoun.         |
| Heath Spring     | Lancaster    | 568         | 5  | 50.9              | +1.5                         | 75   | 10                       | 24      | 14   | 36     | 0.72 | -2.32         | 0.42 | 0                                    | 0     | 3                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | J. A. Weaver.          |
| Kingsree (1)     | Williamsburg | 54          | 18 | 59.6              | +4.1                         | 80   | 19                       | 35      | 13   | 30     | 0.90 | -1.93         | 0.90 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | J. A. Scott.           |
| Kingsree (2)     | Williamsburg | 54          | 18 | 59.6              | +4.1                         | 80   | 19                       | 35      | 13   | 30     | 0.90 | -1.93         | 0.90 | 0                                    | 0     | 1                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | A. O. Matthews.        |
| Liberty          | Pickens      | 900         | 12 | 50.8              | +0.5                         | 79   | 10                       | 21      | 13   | 41     | 1.67 | -1.26         | 0.75 | 4.0                                  | 0     | 5                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1        | 1   | 1   | 1   | 1   | S.                     |
| Little Mountain  | Newberry     | 630         | 13 | 54.4              | -1.1                         | 77   | 10                       | 27      | 14   | 32     | 0.69 | -2.02         | 0.51 | 4.0                                  | 0     | 4                                    | 1      | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |     |     |     |          |     |     |     |     |                        |



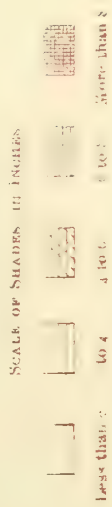
## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

NOVEMBER, 1906.

DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING NOVEMBER, 1906.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, NOVEMBER, 1906.

| STATIONS.         | Day of Month. |   |   |   |   |   |   |   |   |    |     |      |    |     |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | Total. |      |
|-------------------|---------------|---|---|---|---|---|---|---|---|----|-----|------|----|-----|------|-----|-----|------|-----|-----|-----|-----|----|----|-----|----|----|----|----|----|----|--------|------|
|                   | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11  | 12   | 13 | 14  | 15   | 16  | 17  | 18   | 19  | 20  | 21  | 22  | 23 | 24 | 25  | 26 | 27 | 28 | 29 | 30 | 31 |        |      |
| Aiken             |               |   |   |   |   |   |   |   |   |    | .75 |      |    | .40 | .10  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 1.25   |      |
| Allendale         |               |   |   |   |   |   |   |   |   |    |     |      |    |     | 1.00 |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 1.00   |      |
| Anderson          |               |   |   |   |   |   |   |   |   |    | .05 |      |    |     | .60  |     | .25 | .38  | .02 |     |     | .03 |    |    |     |    |    |    |    |    |    | 1.33   |      |
| Augusta, Ga.      |               |   |   |   |   |   |   |   |   |    | .18 |      |    | .75 |      |     | T.  | .02  |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.95   |      |
| Barksdale         |               |   |   |   |   |   |   |   |   |    |     |      |    |     |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    |        |      |
| Batesburg         |               |   |   |   |   |   |   |   |   |    |     | .51  |    |     | .54  |     |     |      | T.  | T.  |     |     |    |    |     |    |    |    |    |    |    | 1.05   |      |
| Beaufort          |               |   |   |   |   |   |   |   |   |    | T.  |      |    | .36 |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.42   |      |
| Bennettsville     |               |   |   |   |   |   |   |   |   |    | .21 |      |    | .59 |      |     |     |      |     |     | T.  | .04 |    |    | .02 |    |    |    |    |    |    | 0.80   |      |
| Blackville        |               |   |   |   |   |   |   |   |   |    | .20 | .70  |    |     |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.90   |      |
| Blairs            |               |   |   |   |   |   |   |   |   |    |     |      |    |     | .46  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.46   |      |
| Bowman            |               |   |   |   |   |   |   |   |   |    | T.  | .18  |    | .12 | .78  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 1.08   |      |
| Calhoun Falls     |               |   |   |   |   |   |   |   |   |    |     | .10  |    | .26 |      |     |     | .28  | .58 | .19 |     |     |    |    |     |    |    |    |    |    |    | 1.41   |      |
| Camden (1)        |               |   |   |   |   |   |   |   |   |    | .20 |      |    | .51 |      |     | T.  | T.   |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.71   |      |
| Camden (2)        |               |   |   |   |   |   |   |   |   |    |     |      |    | .52 |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.52   |      |
| Catawba           |               |   |   |   |   |   |   |   |   |    |     |      |    |     | .05  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.05   |      |
| Chappells         |               |   |   |   |   |   |   |   |   |    |     | .04  | T. |     |      |     |     | T.   |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.04   |      |
| Charleston        |               |   |   |   |   |   |   |   |   |    | T.  |      |    | .38 | T.   |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.38   |      |
| Charlotte, N. C.  |               |   |   |   |   |   |   |   |   |    | .08 |      |    | .47 | .01  |     | .02 | .19  | T.  | T.  |     |     |    |    |     |    |    |    |    |    |    | 1.07   |      |
| Cheraw (1)        |               |   |   |   |   |   |   |   |   |    |     | .01  |    | .61 |      |     |     | T.   |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.65   |      |
| Cheraw (2)        |               |   |   |   |   |   |   |   |   |    |     | .05  |    | .63 |      |     |     | .01  |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.69   |      |
| Clark's Hill      |               |   |   |   |   |   |   |   |   |    | .47 |      |    | .50 |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.97   |      |
| Clemson College   |               |   |   |   |   |   |   |   |   |    |     |      |    | .61 |      |     | .37 | .68  |     |     |     |     |    |    |     |    |    |    |    |    |    | 1.66   |      |
| Columbia          |               |   |   |   |   |   |   |   |   |    | .30 |      |    | .49 | .01  |     | T.  | T.   | T.  |     | T.  |     |    |    |     |    |    |    |    |    |    | 0.80   |      |
| Conway            |               |   |   |   |   |   |   |   |   |    | .35 |      |    | .90 |      |     |     |      |     | .90 |     |     |    |    |     |    |    |    |    |    |    | 2.15   |      |
| Darlington        |               |   |   |   |   |   |   |   |   |    |     | .26  |    |     | .75  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 1.01   |      |
| Dillon            |               |   |   |   |   |   |   |   |   |    | .44 |      |    | .06 | .82  |     |     |      |     |     | .01 |     |    |    |     |    |    |    |    |    |    | 1.33   |      |
| Due West          |               |   |   |   |   |   |   |   |   |    | .73 |      |    | .65 |      |     |     | .47  | .38 |     |     |     |    |    |     |    |    |    |    |    |    | 2.23   |      |
| Edisto            |               |   |   |   |   |   |   |   |   |    |     |      |    | .91 |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.91   |      |
| Effingham         |               |   |   |   |   |   |   |   |   |    |     |      |    | .75 |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.75   |      |
| Enoree            |               |   |   |   |   |   |   |   |   |    |     |      |    | .30 |      |     |     | .40  |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.70   |      |
| Florence          |               |   |   |   |   |   |   |   |   |    |     |      |    |     |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    |        |      |
| Gaffney           |               |   |   |   |   |   |   |   |   |    |     |      |    |     |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    |        |      |
| Georgetown        |               |   |   |   |   |   |   |   |   |    | T.  |      |    | .50 |      |     |     |      | T.  |     |     |     |    |    |     |    |    |    |    |    |    | C. 50  |      |
| Greenville        |               |   |   |   |   |   |   |   |   |    |     |      |    | .40 |      | .05 | .40 | .45  |     |     |     |     |    |    |     |    |    |    |    |    |    | 1.30   |      |
| Greenwood         |               |   |   |   |   |   |   |   |   |    |     | .15  |    |     | .42  |     |     | .15  |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.72   |      |
| Heath Spring      |               |   |   |   |   |   |   |   |   |    |     |      |    |     |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    |        |      |
| Kingstree (1)     |               |   |   |   |   |   |   |   |   |    |     |      |    |     | .90  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.90   |      |
| Kingstree (2)     |               |   |   |   |   |   |   |   |   |    |     | .30  |    |     | .85  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 1.15   |      |
| Liberty           |               |   |   |   |   |   |   |   |   |    | .10 |      |    | .75 |      |     | .20 | .63  | T.  | .02 | T.  |     |    |    |     |    |    |    |    |    |    | 1.67   |      |
| Little Mountain   |               |   |   |   |   |   |   |   |   |    | .13 |      |    | .43 | .08  |     |     | .05  | T.  |     |     |     |    |    |     |    |    |    |    |    |    | 0.69   |      |
| Newberry          |               |   |   |   |   |   |   |   |   |    | .19 |      |    | .52 |      |     |     | .04  | .04 |     |     |     |    |    |     |    |    |    |    |    |    | 0.79   |      |
| Pelzer            |               |   |   |   |   |   |   |   |   |    |     |      |    | .14 |      |     |     | .43  |     | .48 |     |     |    |    |     |    |    |    |    |    |    | 1.05   |      |
| Pineopolis        |               |   |   |   |   |   |   |   |   |    |     |      |    |     |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    |        |      |
| St. George        |               |   |   |   |   |   |   |   |   |    | .18 |      |    |     | .88  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 1.06   |      |
| St. Matthews      |               |   |   |   |   |   |   |   |   |    | .22 |      |    | .72 |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.94   |      |
| St. Stephen       |               |   |   |   |   |   |   |   |   |    | .45 |      |    | .75 |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.90   |      |
| Saluda            |               |   |   |   |   |   |   |   |   |    | .18 | .01  |    | .26 | .29  |     | .02 |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.76   |      |
| Santee            |               |   |   |   |   |   |   |   |   |    | .01 |      |    | .53 | .16  |     | T.  | .16  | .02 |     |     |     |    |    |     |    |    |    |    |    |    | 0.88   |      |
| Savannah, Ga.     |               |   |   |   |   |   |   |   |   |    | T.  | T.   |    | .30 |      |     |     |      |     | T.  |     |     |    |    |     |    |    |    |    |    |    | 0.36   |      |
| Smiths Mills      |               |   |   |   |   |   |   |   |   |    |     | 1.00 |    | .68 | 1.25 |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 2.25   |      |
| Society Hill      |               |   |   |   |   |   |   |   |   |    | .18 |      |    | .68 |      |     |     |      | .02 |     |     |     |    |    |     |    |    |    |    |    |    | 0.88   |      |
| Spartanburg       |               |   |   |   |   |   |   |   |   |    | .05 |      |    | .50 |      |     | .36 | .03  |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.94   |      |
| Stateburg         |               |   |   |   |   |   |   |   |   |    | .71 |      |    |     |      |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    |        | 1.44 |
| Summerville       |               |   |   |   |   |   |   |   |   |    | T.  | .04  |    | .73 | .62  |     | T.  |      |     |     | .04 | T.  |    |    |     |    |    |    |    |    |    | 0.70   |      |
| Sumter            |               |   |   |   |   |   |   |   |   |    |     | .41  |    | .71 |      |     |     |      |     | .11 |     |     |    |    |     |    |    |    |    |    |    | 1.23   |      |
| Trenton           |               |   |   |   |   |   |   |   |   |    |     | .48  |    | .47 |      | .49 |     | T.   | T.  |     |     |     |    |    |     |    |    |    |    |    |    | 1.04   |      |
| Trial             |               |   |   |   |   |   |   |   |   |    | .25 |      |    | .91 |      |     |     |      |     |     | .05 |     |    |    |     |    |    |    |    |    |    | 1.24   |      |
| Wadhall           |               |   |   |   |   |   |   |   |   |    |     |      |    | .30 |      |     | .53 | 1.33 | .20 | T.  |     |     |    |    |     |    |    |    |    |    |    | 1.24   |      |
| Walterboro        |               |   |   |   |   |   |   |   |   |    |     |      |    | .03 | .70  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 2.36   |      |
| Wilmington, N. C. |               |   |   |   |   |   |   |   |   |    | .70 | .02  |    | .27 | .30  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.73   |      |
| Windsboro         |               |   |   |   |   |   |   |   |   |    | T.  |      |    |     |      |     | T.  |      |     |     |     |     |    |    |     |    |    |    |    |    |    |        | T.   |
| Winthrop College  |               |   |   |   |   |   |   |   |   |    |     |      |    | .08 | .45  |     | T.  | .10  |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.63   |      |
| Yemassee          |               |   |   |   |   |   |   |   |   |    |     | T.   |    |     | .53  |     |     |      |     |     |     |     |    |    |     |    |    |    |    |    |    | 0.53   |      |
| Yorkville         |               |   |   |   |   |   |   |   |   |    |     | T.   |    | .60 |      |     | T.  | .31  | .05 |     |     |     |    |    |     |    |    |    |    |    |    | 0.96   |      |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR DECEMBER, 1906.

SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

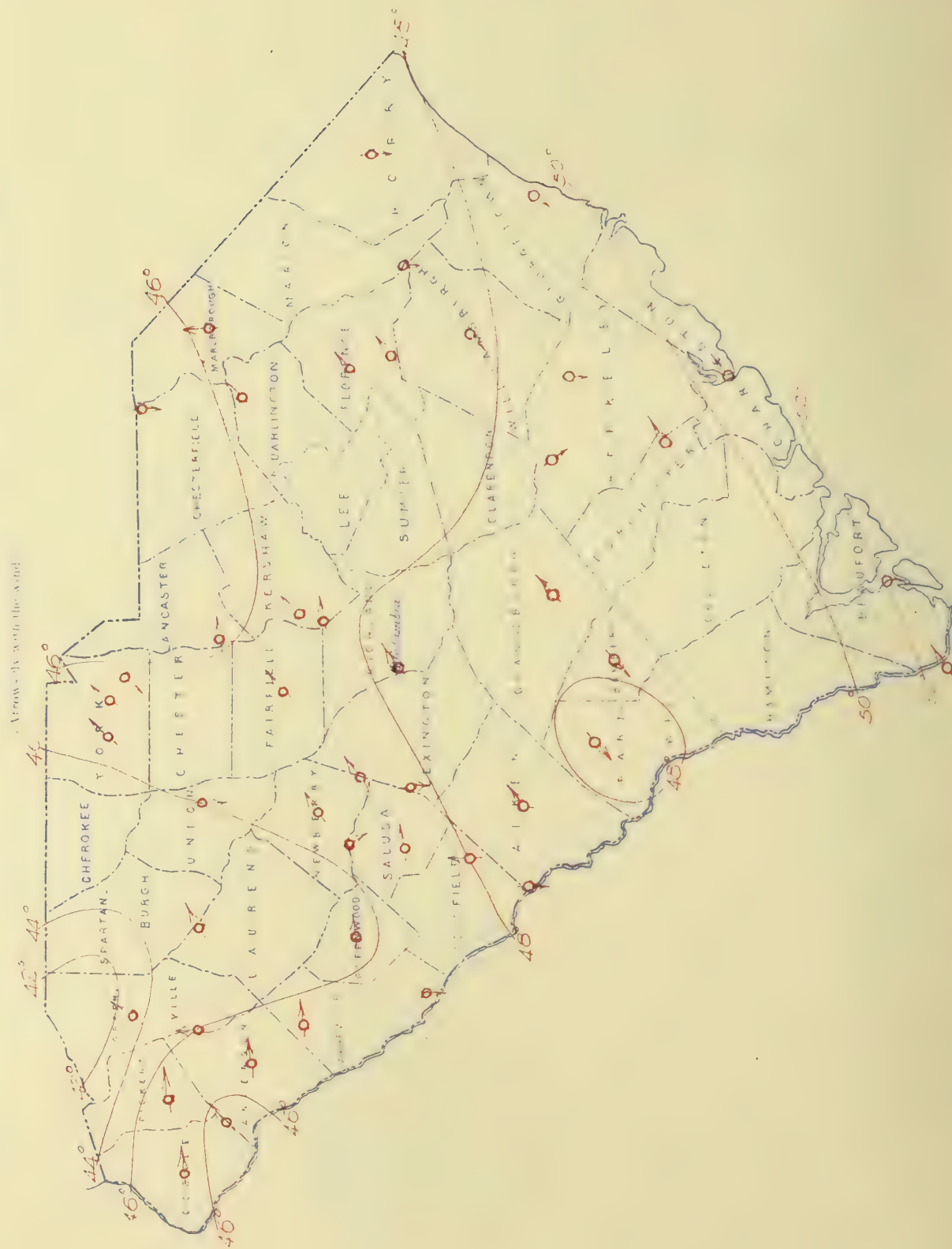
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

JANUARY 25, 1907.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1886.





U. S. DEPARTMENT OF AGRICULTURE,

**CLIMATOLOGICAL SERVICE**

OF THE

**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. IX. COLUMBIA, S. C., DECEMBER, 1906. No. 12.

**GENERAL SUMMARY.**

The mean temperature was one degree above normal but the daily fluctuations of temperature were at times rapid and severe. The month began with a period of warm and very pleasant weather, the maximum temperature for the month having occurred on the 1st and on the 3rd at a number of stations. The 6th was another warm day, on which thunderstorms were noted in all portions of the State. The 10th was also very warm, and a period of unusually high temperatures began on the 13th and ended on the 17th during which the maximum temperatures were noted at a majority of the stations. After the 18th the temperature was below normal until the last three days which were mild and pleasant.

The coldest weather of the month began on the 23rd and ended on the 27th. During this period the minimum temperatures were recorded at all stations, generally on the 24th and 25th.

Maximum temperatures of 70°, or above, were noted on eleven days in the extreme southeastern portion of the State, and on an average of eight days in the central portions, while in the western portion the maximum temperatures were generally below 70°, altho at a few stations the maximum was slightly above 70° on one day.

The minimum temperatures fell to 32°, or below on from eight to twenty days in the western half of the State; on an average of eight days in the central and northeastern portion, and on five days along the southeastern coast.

The precipitation was heaviest in the extreme western and northwestern tier of counties where it was largely in excess of the normal amount. It was very evenly distributed over the rest of the State, the amounts having been nearly normal in all sections except in parts of the coast regions and in the lower Savannah valley where deficiencies of over an inch occurred.

There were four well defined rainy periods, beginning on the 5th, 10th, 16th, and 27th, respectively. The first two periods were short and had comparatively light rainfall, the last two were much longer and had heavier rainfall. The heaviest rains were noted generally on the 14th, 20th, and 31st. The precipitation was practically all in the form of rain altho a trace of sleet fell on the 19th in the central and

western portions and a trace of snow on the 22nd in the north central and northeastern portions, both melting as they fell. There was an ice storm in the western portion of the State on the 19th and 20th, altho the ice coating did not become heavy enough to do any damage.

The wind movement was unusually light on a number of days, the total movement having been less than 100 miles on 14 days at Columbia, and less than 50 miles on 5 days. The maximum velocity was only 3 miles per hour on the 2nd, only 4 miles per hour on the 10th, and only 5 miles per hour on the 9th and 19th, at Columbia.

The prevailing direction of the wind was from the southwest for the first time in the last 13 years.

The average number of clear days was the same as the average number for the past 13 years, while the number of partly cloudy days was greater, and the number of cloudy days was less than the 13-year average.

**Temperature.**

The mean for December, 1906, was 48.0°, which is 1.0° above normal. The highest local mean was 53.7° at Sumter, the lowest was 41.4° at Greenville. The monthly extremes of temperature were a maximum of 89° at Blackville on the 14th, and a minimum of 11° at Dillon on the 26th, making the State range 78°. The greatest local monthly range was 71° at Blackville, the least was 51° at Beaufort. The mean of the daily maximum temperatures was 58.1°, and of the daily minimum temperatures was 38.0°, making the average daily range 20.1°.

**Precipitation.**

The average precipitation was 3.25 inches, which is 0.18 of an inch above normal. The greatest local amount was 7.71 inches at Walhalla, the least was 1.18 inches at Winnsboro. The greatest 24-hour rainfall was 2.90 inches at Walhalla on the 31st. The average number of days with 0.01 of an inch, or more, precipitation was 7, ranging from 3 days at Blairs and St. Matthews to 10 days at Anderson, Beaufort, Little Mountain, Saluda, and Summerville.

**Wind.**

The prevailing direction of the wind was from the southwest at 20 stations, from the north and the west at 8 stations each, from the northeast at 6 stations, from the northwest at 5 stations, and from the south at 3 stations.

**HIGH WINDS.**—At Bowman on the 3rd, 6th, 31st; at Camden on the 3rd, 6th, 17th, 23rd; at Charleston and Santuc on the 3rd; at Columbia on the 6th; and at Newberry on the 3rd, 6th.

**Sunshine and Cloudiness.**

The average number of clear days was 14, of partly cloudy days was 8, and of cloudy days was 9.



## MISCELLANEOUS PHENOMENA.

SOLAR HALO.—At Charleston on the 10th.

LUNAR HALOS.—At Camden on the 31st; at Charleston on the 27th; at Winthrop College on the 1st, 3rd, 31st.

SNOW.—At Bowman, Heath Springs, Society Hill, Summerville on the 22nd.

SLEET.—At Aiken, Liberty, Spartanburg, Trenton on the 19th; at Batesburg, Santuc on the 20th; at Yorkville on the 19th, 20th.

THUNDERSTORMS.—At Liberty on the 5th; at Beaufort, Camden, Columbia, Newberry, Saluda, Society Hill, Spartanburg, Trial on the 6th; at Cheraw on the 7th.

DENSE FOGS.—At Aiken, Camden, Cheraw, Columbia, Georgetown on the 29th; at Blackville on the 28th, 29th; at Beaufort on the 13th, 16th, 29th, 31st; at Charleston on the 20th, 29th, 31st; at Darlington on the 30th; at Greenville, Little Mountain, Santuc, Society Hill, Yemassee on the 29th, 30th; at Liberty on the 21st, 28th, 29th, 30th; at Newberry, Winthrop College on the 28th, 29th, 30th.

## REMARKS BY OBSERVERS.

BEAUFORT.—The total precipitation for the year 1906 was 53.14 inches, which is 5.04 inches in excess of the normal amount.

BOWMAN.—The most noteworthy features of the December weather were the small amount of precipitation for the first 18 days, and the low temperature during the third decade.

CLARKS HILL.—The rain that fell on the 19th froze as it fell.

DARLINGTON.—Rain on the 20th of the month froze as it fell.

LIBERTY.—The precipitation was well distributed thruout the month and kept the soil saturated. The hard freeze from the 23rd to the 27th did some damage.

SANTUC.—With the exception of the 24th and 25th, which were unusually cold, the weather was mild thruout the month. The precipitation was well distributed and the rains were light until on the last day.

TRENTON.—The precipitation for the year was 6.73 inches in excess of the normal amount.

WALHALLA.—The rainfall for the month was 4.73 inches above the normal.

## BAROMETER AND WIND TABLE FOR DECEMBER, 1906.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 30.22      | 30.53    | 12    | 29.93   | 6     | 4.914           | 6.6             | 28                | W.         | 3     |
| Charleston.....       | 30.21      | 30.61    | 12    | 29.85   | 3     | 7.769           | 10.4            | 32                | W.         | 3     |
| Charlotte, N. C.....  | 30.20      | 30.55    | 19    | 29.85   | 6     | 6.225           | 8.4             | 26                | S.         | 31    |
| Columbia.....         | 30.21      | 30.54    | 12    | 29.80   | 6     | 3.925           | 5.3             | 36                | SW.        | 5     |
| Savannah, Ga.....     | 30.23      | 30.49    | 12    | 29.91   | 3     | 5.081           | 8.0             | 34                | W.         | 3     |
| Wilmington, N. C..... | 30.20      | 30.54    | 10    | 29.83   | 3     | 5.938           | 8.0             | 32                | SW.        | 3     |
| Averages.....         | 30.21      | 30.61    | 12    | 29.83   | 3     | 5.787           | 7.8             | 36                | SW.        | 6     |

## RIVER GAGE READINGS, DECEMBER, 1906.

| Stations.            | Mean. | Highest. | Date. | Lowest. | Date. |
|----------------------|-------|----------|-------|---------|-------|
| Blairs.....          | 1.7   | 3.0      | 31    | 0.2     | 5     |
| Calhoun Falls.....   | 3.2   | 4.0      | 31    | 2.6     | *3    |
| Camden.....          | 8.1   | 11.9     | 12    | 6.6     | 3     |
| Catawba.....         | 2.9   | 4.0      | 12    | 2.3     | 7     |
| Chappells.....       | 4.1   | 8.5      | 20    | 2.5     | 6     |
| Cheraw.....          | 4.3   | 9.8      | 22    | 2.9     | *5    |
| Columbia.....        | 1.7   | 3.6      | 21    | 0.9     | 2     |
| Edisto.....          | 3.3   | 4.7      | 31    | 2.2     | 7     |
| Effingham.....       | 5.0   | 7.5      | 27    | 3.1     | *1    |
| Kingstree.....       | 5.8   | 8.0      | 30    | 4.8     | *10   |
| Mt. Holly, N. C..... | 2.2   | 2.8      | 11    | 1.9     | 10    |
| Pelzer.....          | 3.7   | 4.6      | *18   | 3.3     | *6    |
| Rimini.....          | 9.4   | 12.2     | 23    | 7.7     | 11    |
| St. Stephens.....    | 7.2   | 8.2      | 26    | 5.8     | *12   |
| Smiths Mills.....    | 7.8   | 10.9     | 28    | 5.0     | *10   |

\* On other dates also.

## COMPARATIVE DATA FOR DECEMBER—13 YEARS.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |                |                |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|----------------|----------------|----------------|--------------------------|----------------------------------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                | Least Monthly. |                |                          |                                  |
|           |              |                  |                  |          |          |                | Amount.           | Place.         | Amount.        | Place.         |                          |                                  |
| 1894..... | 48.1         | 56.8             | 39.7             | 85       | -1       | 2.56           | 6.37              | Central.       | 0.43           | Hardeeville.   | 7                        |                                  |
| 1895..... | 46.1         | 57.1             | 35.5             | 80       | 15       | 3.04           | 6.55              | Holland.       | 1.25           | Central.       | 6                        | nw.                              |
| 1896..... | 44.0         | 54.5             | 33.5             | 83       | 8        | 3.55           | 6.46              | St. George.    | 0.55           | Walhalla.      | 7                        | nw.                              |
| 1897..... | 47.6         | 57.6             | 37.7             | 82       | 21       | 2.40           | 4.11              | Walhalla.      | 1.10           | Georgetown.    | 8                        | ne.                              |
| 1898..... | 49.5         | 54.8             | 37.0             | 77       | 9        | 2.84           | 6.52              | Gillisonville. | 1.02           | Cheraw.        | 7                        | ne.                              |
| 1899..... | 44.6         | 54.9             | 34.2             | 79       | 11       | 2.33           | 4.05              | Batesburg.     | 0.85           | Charleston.    | 8                        | nw.                              |
| 1900..... | 45.5         | 55.6             | 35.4             | 79       | 18       | 5.64           | 8.15              | Effingham.     | 3.65           | Batesburg.     | 7                        | nw.                              |
| 1901..... | 44.0         | 54.4             | 33.5             | 80       | 2        | 5.01           | 10.23             | Spartanburg.   | 1.28           | Gillisonville. | 8                        | n.                               |
| 1902..... | 46.8         | 56.6             | 37.1             | 85       | 10       | 4.26           | 6.80              | Conway.        | 1.92           | Bennettsville. | 11                       | n.                               |
| 1903..... | 41.0         | 52.5             | 29.4             | 72       | 10       | 1.95           | 3.84              | Smiths Mills.  | 1.57           | Barksdale.     | 7                        | nw.                              |
| 1904..... | 45.5         | 54.9             | 36.1             | 78       | 16       | 2.97           | 4.90              | Greenville.    | 1.08           | Charleston.    | 7                        | w.                               |
| 1905..... | 45.2         | 54.7             | 35.8             | 77       | 16       | 7.25           | 11.18             | Chappells.     | 3.18           | Kingstree.     | 9                        | w.                               |
| 1906..... | 48.0         | 58.1             | 38.0             | 89       | 11       | 3.25           | 7.71              | Walhalla.      | 1.18           | Winnboro.      | 10                       | ne.                              |
|           |              |                  |                  |          |          |                |                   |                |                |                | 7                        | sw.                              |



## CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER, 1906.

| STATIONS.                             | Counties.     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       |                          | Sky                |                    |                            |                     |                               | Observations.          |
|---------------------------------------|---------------|-----------------|-------------------------|-----------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|--------------------------|--------------------|--------------------|----------------------------|---------------------|-------------------------------|------------------------|
|                                       |               |                 |                         | Mean.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall—unmelted. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number cloudy days. | Prevailing direction of wind. |                        |
| Aiken.                                | Aiken.        | 565             | 22                      | 48.7                              | +0.1                       | 73       | 16    | 15      | *24   | 29                       | 3.50   | +0.38                      | 0.90                  | 0                        | 9                  | 23                 | 4                          | 4                   | sw.                           | C. F. McGahan, M. D.   |
| Allendale.                            | Barnwell.     | 186             | 18                      |                                   |                            |          |       |         |       |                          |        |                            |                       |                          |                    |                    |                            |                     |                               | A. R. Hiers.           |
| Anderson.                             | Anderson.     | 764             | 5                       | 46.9                              | +2.9                       | 74       | *3    | 13      | 21    | 32                       | 4.39   | +1.39                      | 1.56                  | 0                        | 10                 | 14                 | 3                          | 14                  | w.                            | H. H. Russell.         |
| Augusta, Ga.                          | Richmond.     | 134             | 35                      | 49.6                              | +1.9                       | 74       | 3     | 20      | 25    | 33                       | 2.47   | -0.94                      | 0.90                  | 0                        | 9                  | 10                 | 9                          | 12                  | nw.                           | Weather Bureau.        |
| Barksdale.                            | Laurens.      | 680             | 5                       |                                   |                            |          |       |         |       |                          |        |                            |                       |                          |                    |                    |                            |                     |                               | J. T. Garrett.         |
| Batesburg.                            | Lexington.    | 656             | 18                      | 47.6                              | +1.2                       | 75       | 3     | 15      | 24    | 30                       | 2.51   | +0.06                      | 0.74                  | 0                        | 6                  | 18                 | 4                          | 9                   | n.                            | E. J. Hite.            |
| Beaufort.                             | Beaufort.     | 20              | 20                      | 52.1                              | -0.2                       | 75       | 3     | 24      | 24    | 32                       | 2.16   | -0.25                      | 0.56                  | 0                        | 10                 | 20                 | 4                          | 7                   | n.                            | S. M. Benton.          |
| Bennettsville.                        | Marlboro.     | 151             | 5                       | 49.5                              |                            | 75       | 3     | 16      | 25    | 38                       | 3.45   |                            | 1.24                  | 0                        | 7                  | 16                 | 4                          | 11                  | sw.                           | C. S. McCall.          |
| Blackville.                           | Barnwell.     | 296             | 18                      | 47.0                              | +0.1                       | 80       | 14    | 18      | 24    | 42                       | 2.36   | -1.25                      | 0.54                  | 0                        | 8                  | 19                 | 3                          | 9                   | ne.                           | G. D. C. Lange.        |
| Blairs.                               | Fairfield.    | 293             | 1                       |                                   |                            |          |       |         |       |                          | 2.08   |                            | 0.90                  | 0                        | 3                  | 13                 | 7                          | 11                  | nw.                           | T. S. McMeekin.        |
| Bowman.                               | Orangeburg.   | 160             | 5                       | 48.8                              |                            | 78       | 17    | 15      | 25    | 38                       | 3.39   |                            | 0.72                  | 0                        | 7                  | 16                 | 8                          | 7                   | nw.                           | B. O. Evans.           |
| Calhoun Falls.                        | Abbeville.    | 508             | 13                      |                                   |                            |          |       |         |       |                          | 2.55   | -1.09                      | 0.64                  | 0                        | 6                  | 19                 | 0                          | 12                  | nw.                           | P. J. Phibber.         |
| Camden (1).                           | Kershaw.      |                 |                         | 47.5                              |                            | 74       | 17    | 13      | 25    | 33                       | 2.24   |                            | 0.99                  | 0                        | 6                  | 17                 | 1                          | 13                  | sw.                           | J. B. Mickle.          |
| Camden (2).                           | Kershaw.      | 222             | 40                      |                                   |                            |          |       |         |       |                          | 2.48   | -0.67                      | 1.14                  | 0                        | 5                  | 17                 | 6                          | 8                   | ne.                           | W. C. Brown.           |
| Catawba.                              | York.         |                 |                         |                                   |                            |          |       |         |       |                          | 2.56   |                            | 0.86                  | 0                        | 4                  | 17                 | 4                          | 10                  | nw.                           | James Y. Brice.        |
| Chappells.                            | Newberry.     | 402             | 1                       |                                   |                            |          |       |         |       |                          | 3.08   |                            | 1.10                  | 0                        | 4                  | 12                 | 5                          | 14                  | sw.                           | W. F. Glenn.           |
| Charleston.                           | Charleston.   | 48              | 37                      | 51.8                              | +0.3                       | 75       | 3     | 22      | 25    | 23                       | 1.83   | 1.41                       | 0.83                  | 0                        | 9                  | 12                 | 10                         | 9                   | sw.                           | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 28                      | 44.8                              | +1.2                       | 70       | 3     | 17      | 24    | 28                       | 3.31   | -0.69                      | 1.46                  | 0                        | 11                 | 11                 | 3                          | 17                  | sw.                           | Weather Bureau.        |
| Cheraw (1).                           | Chesterfield. | 144             | 18                      | 45.0                              | +0.5                       | 74       | 17    | 16      | 25    | 34                       | 3.36   | +0.66                      | 1.66                  | 0                        | 6                  | 11                 | 6                          | 14                  | n.                            | W. R. Godfrey.         |
| Cheraw (2).                           |               | 144             | 13                      |                                   |                            |          |       |         |       |                          | 3.44   | +0.32                      | 1.24                  | 0                        | 9                  | 17                 | 7                          | 7                   | n.                            | Jno. H. Powe.          |
| Clarks Hill.                          | Edgefield.    | 500             | 4                       | 47.4                              |                            | 74       | 16    | 12      | 24    | 39                       | 3.36   |                            | 0.80                  | 0                        | 6                  | 13                 | 3                          | 15                  | sw.                           | Wm. S. Middleton.      |
| Clemson College.                      | Oconee.       | 850             | 15                      | 44.7                              | +2.2                       | 67       | 6     | 12      | 24    | 28                       | 5.97   | +2.43                      | 1.87                  | 0                        | 9                  | 10                 | 9                          | 11                  | sw.                           | Jno. N. Hook.          |
| Columbia.                             | Richland.     | 351             | 19                      | 48.8                              | +0.9                       | 74       | 3     | 17      | 25    | 31                       | 2.56   | -0.38                      | 1.23                  | 0                        | 9                  | 10                 | 9                          | 12                  | sw.                           | Central Office.        |
| Conway.                               | Horry.        | 25              | 14                      | 47.4                              |                            | 78       | 17    | 17      | 25    | 42                       | 3.37   | +0.81                      | 1.50                  | 0                        | 8                  | 23                 | 0                          | 8                   | n.                            | P. C. Quattlebaum.     |
| Darlington.                           | Darlington.   | 175             | 11                      | 46.6                              |                            | 77       | 17    | 15      | 25    | 43                       | 3.65   | +0.78                      | 1.70                  | 0                        | 9                  | 17                 | 12                         | 1                   |                               | D. C. McCall.          |
| Dillon.                               | Marion.       | 100             | 2                       | 47.6                              |                            | 78       | 17    | 11      | 26    | 42                       | 2.85   |                            | 1.60                  | 0                        | 8                  |                    |                            |                     |                               | A. E. Rowell.          |
| Due West.                             | Abbeville.    | 730             | 5                       | 47.7                              |                            | 72       | 3     | 15      | 24    | 28                       | 3.82   |                            | 0.93                  | 0                        | 9                  | 13                 | 15                         | 3                   | w.                            | Rev. O. Y. Bonner.     |
| Edisto.                               | Bamberg.      | 127             | 13                      |                                   |                            |          |       |         |       |                          | 2.33   | -0.74                      | 0.61                  | 0                        | 6                  | 22                 | 2                          | 7                   | ne.                           | Mrs. M. Thompson.      |
| Edinburgh.                            | Florence.     | 106             | 14                      |                                   |                            |          |       |         |       |                          | 1.95   | -1.26                      | 0.75                  | 0                        | 6                  | 19                 | 0                          | 12                  | sw.                           | H. B. McCall.          |
| Enoree.                               | Spartanburg.  | 987             | 1                       |                                   |                            |          |       |         |       |                          | 3.20   |                            | 1.40                  | 0                        | 5                  | 21                 | 1                          | 9                   | sw.                           | J. W. King.            |
| Florence.                             | Florence.     | 136             | 18                      | 47.1                              | +3.5                       | 77       | 17    | 18      | 25    | 39                       | 3.01   | +0.55                      | 1.50                  | 0                        | 8                  | 18                 | 3                          | 10                  | sw.                           | H. K. Gilbert.         |
| Georgetown.                           | Georgetown.   | 12              | 13                      | 49.8                              | +1.1                       | 75       | *6    | 18      | 25    | 33                       | 3.19   | -0.03                      | 1.67                  | 0                        | 6                  |                    |                            |                     | ne.                           | Reid Whitford.         |
| Greenville.                           | Greenville.   | 989             | 14                      | 41.4                              | -0.1                       | 73       | 3     | 13      | 24    | 40                       | 5.06   | +1.86                      | 1.75                  | 0                        | 9                  | 10                 | 3                          | 18                  | sw.                           | Mrs. S. A. Crittenden. |
| Greenwood.                            | Greenwood.    | 671             | 18                      | 44.4                              | +1.7                       | 70       | 3     | 16      | *24   | 34                       | 3.80   | +0.56                      | 1.55                  | 0                        | 6                  | 17                 | 0                          | 14                  | w.                            | M. M. Calhoun.         |
| Heath Spring.                         | Lancaster.    | 568             | 5                       | 44.6                              |                            | 72       | 1     | 13      | 25    | 36                       | 3.21   |                            | 1.63                  | 0                        | 8                  | 11                 | 10                         | 10                  | w.                            | J. A. Weaver.          |
| Kingstree (1).                        | Williamsburg. | 54              | 18                      |                                   |                            |          |       |         |       |                          | 2.82   | -0.23                      | 1.50                  | 0                        | 7                  | 18                 | 7                          | 6                   | ne.                           | J. A. Scott.           |
| Kingstree (2).                        |               | 54              | 12                      |                                   |                            |          |       |         |       |                          | 2.35   | -0.96                      | 1.50                  | 0                        | 4                  | 21                 | 2                          | 8                   | ne.                           | A. O. Matthews.        |
| Liberty.                              | Pickens.      | 900             | 12                      | 46.0                              | +3.4                       | 76       | 1     | 12      | *24   | 32                       | 6.98   | +3.57                      | 1.90                  | 0                        | 8                  | 14                 | 4                          | 13                  | w.                            | Jno. T. Boggs.         |
| Little Mountain.                      | Newberry.     | 630             | 13                      | 48.1                              | +1.2                       | 74       | 3     | 15      | 24    | 32                       | 2.79   | -0.19                      | 0.74                  | 0                        | 10                 | 13                 | 9                          | 9                   | sw.                           | John M. Sease, M. D.   |
| Newberry.                             | Newberry.     | 502             | 2                       | 46.6                              | +0.4                       | 74       | 3     | 15      | *24   | 34                       | 3.12   | 0.12                       | 0.95                  | 0                        | 8                  | 8                  | 10                         | 13                  | sw.                           | W. G. Peterson.        |
| Pelzer.                               | Anderson.     | 873             | 1                       |                                   |                            |          |       |         |       |                          | 4.86   |                            | 1.54                  | 0                        | 9                  | 10                 | 10                         | 11                  | s.                            | John M. Ward.          |
| Pinopolis.                            | Berkeley.     | 54              | 13                      |                                   |                            |          |       |         |       |                          |        |                            |                       |                          |                    |                    |                            |                     |                               | E. P. Ravenel.         |
| St. George.                           | Dorchester.   | 109             | 18                      | 50.2                              | +2.8                       | 76       | *6    | 18      | 25    | 36                       | 2.22   | 1.24                       | 1.25                  | 0                        | 6                  | 21                 | 0                          | 10                  |                               | G. T. Lewis.           |
| St. Matthews.                         | Orangeburg.   | 269             | 18                      | 46.2                              | -0.9                       | 73       | 15    | 19      | 24    | 36                       | 3.50   | +0.04                      | 1.70                  | 0                        | 3                  | 26                 | 0                          | 5                   |                               | J. S. Warnamaker.      |
| St. Stephen.                          | Berkeley.     | 73              | 14                      |                                   |                            |          |       |         |       |                          | 2.70   | -0.61                      | 1.33                  | 0                        | 6                  | 15                 | 1                          | 15                  | n.                            | C. T. Shuler.          |
| Saluda.                               | Saluda.       | 536             | 5                       | 47.6                              |                            | 72       | 3     | 14      | 25    | 37                       | 2.59   |                            | 0.63                  | 0                        | 10                 | 21                 | 3                          | 7                   | w.                            | Alvin Etheridge.       |
| Santuc.                               | Union.        | 512             | 13                      | 46.2                              | +2.7                       | 72       | 3     | 14      | *24   | 28                       | 3.26   | +0.07                      | 1.13                  | 0                        | 8                  | 12                 | 8                          | 11                  | n.                            | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham.      | 71              | 37                      | 52.6                              | +0.2                       | 76       | 17    | 22      | 25    | 27                       | 1.81   | -1.40                      | 0.62                  | 0                        | 7                  | 14                 | 7                          | 10                  | sw.                           | Weather Bureau.        |
| Smiths Mills.                         | Williamsburg. | 62              | 11                      |                                   |                            |          |       |         |       |                          | 3.00   | -1.19                      | 1.40                  | 0                        | 5                  | 23                 | 0                          | 8                   | n.                            | H. van Kenren.         |
| Society Hill.                         | Darlington.   | 192             | 15                      | 46.3                              | +0.6                       | 73       | 17    | 17      | 24    | 32                       | 3.79   | +1.01                      | 1.78                  | 0                        | 5                  | 12                 | 8                          | 11                  | sw.                           | F. P. Robinson.        |
| Spartanburg.                          | Spartanburg.  | 875             | 15                      | 44.3                              | +0.7                       | 75       | 3     | 13      | 26    | 40                       | 3.84   | +1.26                      | 1.60                  | 0                        | 8                  | 10                 | 0                          | 21                  | ne.                           | W. W. Anderson, M. D.  |
| Stateburg.                            | Sumter.       | 500             | 29                      | 49.7                              | +2.1                       | 76       | 17    | 15      | 25    | 30                       | 3.60   | +0.62                      | 1.56                  | 0                        | 8                  | 11                 | 7                          | 13                  | sw.                           | Miss E. H. Gadsden.    |
| Summerville.                          | Dorchester.   | 75              | 9                       | 49.9                              | +1.1                       | 79       | 17    | 15      | 25    | 39                       | 3.80   | +0.19                      | 1.40                  | 0                        | 10                 | 4                  | 20                         | 7                   | sw.                           | T. M. Bradley.         |
| Sumter.                               | Sumter.       | 169             | 5                       | 53.7                              |                            | 80       | 31    | 13      | 25    | 47                       | 2.66   |                            | 0.91                  | 0                        | 7                  | 23                 | 5                          | 3                   |                               | C. A. Long.            |
| Trenton.                              | Edgefield.    | 620             | 13                      | 48.6                              | +0.4                       | 71       | *3    | 16      | *24   | 28                       | 3.64   | +0.31                      | 1.26                  | 0                        | 8                  | 12                 | 11                         | 8                   | s.                            | Etsell Gaillard.       |
| Trials.                               | Berkeley.     | 85              | 20                      | 49.1                              | +0.5                       | 78       | 17    | 14      | 25    | 39                       | 3.03   | 0                          | 1.10                  | 0                        | 8                  | 14                 | 7                          | 10                  | nw.                           | Miss Jessie Douthit.   |
| Walbala.                              | Oconee.       | 1061            | 15                      | 46.9                              | +2.6                       | 73       | 14    | 12      | 24    | 35                       | 7.71   | +4.73                      | 2.90                  | 0                        | 6                  | 10                 | 13                         | 7                   | w.                            | J. A. Westerberg.      |
| Walterboro.                           | Colleton.     | 69              | 3                       | 52.4                              |                            | 81       | 17    | 18      | 25    | 40                       | 2.95   |                            | 1.01                  | 0                        | 8                  | 18                 | 7                          | 6                   | sw.                           | Weather Bureau.        |
| Wilmington, N. C.                     | New Hanover.  | 52              | 37                      | 47.8                              | -0.5                       | 73       | 16    | 20      | 25    | 31                       | 3.37   | +0.39                      | 1.09                  | 0                        | 9                  | 11                 | 12                         | 8                   | sw.                           | John W. Seigler.       |
| Windsboro.                            | Fairfield.    | 545             | 17                      | 46.1                              | -0.6                       | 72       | *14   | 14      | *22   | 28                       | 1.18   | -1.62                      | 0.68                  | 0                        | 5                  | 22                 | 5                          | 4                   | sw.                           | E. R. Rivers.          |
| Winthrop College.                     | York.         | 690             | 7                       | 46.2                              | -0.2                       | 70       | 14    | 14      | *24   | 32                       | 3.76   | +0.92                      | 0.85                  | 0                        | 9                  | 16                 | 4                          | 11                  | sw.                           | J. G. Hutson.          |
| Yemassee.                             | Beaufort.     | 23              | 11                      | 48.7                              | +0.6                       | 76       | 6     | 17      | 25    | 36                       | 2.99   | -0.61                      | 1.58                  | 0                        | 7                  | 18                 | 1                          | 12                  | sw.                           | J. R. Schorb.          |
| Yorkville.                            | York.         | 680             | 18                      | 47.4                              | +1.3                       | 73       | 3     | 16      | 25    | 33                       | 4.06   | +1.08                      | 1.11                  | 0                        | 9                  | 11                 | 6                          | 14                  | sw.                           |                        |
| MEANS—highest, lowest and dates, etc. |               |                 |                         | 48.0                              | +1.0                       | 89       | 14    | 11      | 26    | 47                       | 3.25   | +0.18                      | 2.90                  | T.                       | 7                  | 14                 | 8                          | 9                   | sw.                           |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard.  
\* On other dates also a indicates 1 day missing, b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



## STATIONS.

| STATIONS. |      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | Monthly<br>mean. |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |      |    |      |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|------|----|------|
| Max.      | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min.             | Max. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |      |    |      |
| 64        | 44   | 64   | 45   | 70   | 50   | 65   | 45   | 65   | 36   | 70   | 55   | 67   | 39   | 56   | 32   | 68   | 39   | 68   | 54   | 62   | 52   | 55   | 34   | 60   | 33   | 69   | 44   | 73   | 51   | 70   | 56   | 67   | 42               | 30   | 42 | 35 | 35 | 47 | 30 | 22 | 35 | 15 | 34 | 15 | 15 | 16 | 51 | 25 | 40 | 56 | 50 | 61 | 50 | 67 | 58 | 58.2 |    |      |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   | 39   | 74   | 57   | 65   | 39   | 72   | 58   | 62   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55   | 59   | 43               | 29   | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56 | 47 | 66   | 52 | 56.5 |    |      |
| 71        | 44   | 60   | 39   | 74   | 58   | 62   | 37   | 59   | 39   | 70   | 52   | 58   | 37   | 59   | 31   | 64   | 38   | 70   | 56   | 66   | 49   | 52   | 37   | 65   | 33   | 66   | 44   | 66   | 43   | 60   | 48   | 64   | 55               | 59   | 43 | 29 | 39 | 31 | 34 | 35 | 42 | 30 | 23 | 37 | 13 | 38 | 14 | 49 | 17 | 47 | 30 | 45 | 32 | 54 | 44 | 56   | 47 | 66   | 52 | 56.5 |
| 68        | 35   | 54   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |      |    |      |

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR DECEMBER, 1906.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1906.

| STATIONS.        | Day of Month. |     |   |   |     |      |     |   |   |      |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     |     |     | Total. |      |      |      |      |      |      |      |
|------------------|---------------|-----|---|---|-----|------|-----|---|---|------|------------------|----|----|----|----|-----|-----|------|------|------|------|-----|----|----|----|----|----|----|-----|-----|-----|--------|------|------|------|------|------|------|------|
|                  | 1             | 2   | 3 | 4 | 5   | 6    | 7   | 8 | 9 | 10   | 11               | 12 | 13 | 14 | 15 | 16  | 17  | 18   | 19   | 20   | 21   | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29  | 30  | 31  |        |      |      |      |      |      |      |      |
| Aiken            |               |     |   |   |     | .60  |     |   |   | .30  |                  |    |    |    |    |     |     | .30  | .90  | .10  |      |     |    |    |    |    |    |    |     |     |     |        |      |      |      |      |      |      |      |
| Allendale        |               |     |   |   |     |      |     |   |   |      |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    | .50 | .30 | .40 | .30    | 3.50 |      |      |      |      |      |      |
| Anderson         |               |     |   |   |     | .25  |     |   |   | 1.35 | .21              |    |    |    |    |     | .06 | .35  | .42  | .27  |      |     |    |    |    |    |    |    | .45 |     | .15 | .18    | 4.39 |      |      |      |      |      |      |
| Angusta, Ga.     |               |     |   |   |     | .28  |     |   |   | .19  |                  |    |    |    |    |     |     | .25  | .01  | .90  | .04  |     |    |    |    |    |    |    | .34 | .12 | T.  | .34    | 2.47 |      |      |      |      |      |      |
| Barksdale        |               |     |   |   |     |      |     |   |   |      |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     |     |     |        |      |      |      |      |      |      |      |
| Batesburg        |               |     |   |   |     |      | .74 |   |   |      | T. <sup>38</sup> |    |    |    |    |     |     | .04  | .26  | .46  | .56  | .01 |    |    |    |    |    |    |     | .39 |     | .27    | 2.51 |      |      |      |      |      |      |
| Beaufort         |               | .01 |   |   |     | T.   | .16 |   |   |      |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     | .32 | .14 | .02    | .22  | 2.16 |      |      |      |      |      |
| Bennettsville    |               |     |   |   |     | .39  |     |   |   | 1.24 |                  |    |    |    |    |     | .08 | 1.23 | .26  | .46  | .56  |     |    |    |    |    |    |    | .21 |     | .10 | .20    | 3.45 |      |      |      |      |      |      |
| Blackville       |               |     |   |   |     | .48  |     |   |   | .54  |                  |    |    |    |    |     | .12 | .20  | .25  |      |      | T.  |    |    |    |    |    |    |     |     | .24 | .48    | .05  | 2.36 |      |      |      |      |      |
| Blairs           |               |     |   |   |     |      |     |   |   |      |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     |     |     |        |      |      |      |      |      |      |      |
| Bowman           |               |     |   |   |     |      | .40 |   |   | T.   | T.               |    |    |    |    |     |     | .28  | .56  | .72  |      |     | T. |    |    |    |    |    |     | .02 |     |        | 1.16 | 2.08 |      |      |      |      |      |
| Calhoun Falls    |               |     |   |   |     |      | .28 |   |   |      | .47              |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     | .05 | .68 |        | .70  | 3.39 |      |      |      |      |      |
| Camden (1)       |               |     |   |   |     | .10  |     |   |   |      | .59              |    |    |    |    |     |     |      |      |      | T.   |     |    |    |    |    |    |    |     |     |     | .39    |      | .18  | .59  | 2.55 |      |      |      |
| Camden (2)       |               |     |   |   |     |      | .44 |   |   |      | .40              |    |    |    |    |     |     |      | T.   | .99  | T.   |     |    | T. |    |    |    |    |     | .15 | .03 | T.     | .38  | 2.24 |      |      |      |      |      |
| Catawba          |               |     |   |   |     | .20  |     |   |   |      | .70              |    |    |    |    |     |     |      |      |      | 1.14 |     |    |    |    |    |    |    |     |     |     | .10    |      | .40  | 2.48 |      |      |      |      |
| Chappells        |               |     |   |   |     |      | .10 |   |   |      | .94              |    |    |    |    |     |     |      | T.   |      | .80  |     |    |    |    |    |    |    |     |     |     |        |      | .86  | 2.56 |      |      |      |      |
| Charleston       |               |     |   |   |     | .09  |     |   |   | T.   | .01              |    |    |    |    |     |     | .29  | .37  | .71  |      |     |    |    |    |    |    |    |     |     | T.  | T.     | T.   | 1.10 | 3.08 |      |      |      |      |
| Charlotte, N. C. |               |     |   |   |     | .10  |     |   |   | 1.46 |                  |    |    |    |    |     | .19 | .01  | .45  | .09  | .06  | T.  |    |    |    |    |    |    |     | T.  |     | .08    | .13  | .04  | .11  | 1.83 |      |      |      |
| Cheraw (1)       |               |     |   |   |     |      | .15 |   |   |      | 1.25             |    |    |    |    |     |     |      |      |      | 1.66 |     |    |    |    |    |    |    |     |     | .06 | .03    | .09  | .79  | 3.31 |      |      |      |      |
| Cheraw (2)       |               |     |   |   |     |      | .14 |   |   |      | 1.24             |    |    |    |    |     |     |      | T.   | 1.64 |      |     |    |    |    |    |    |    |     |     |     | .02    | .08  |      | .20  | 3.36 |      |      |      |
| Clark's Hill     |               |     |   |   |     | .71  |     |   |   | T.   |                  |    |    |    |    |     |     | .03  | T.   |      |      | .02 |    |    |    |    |    |    |     |     |     | .12    | .08  | .02  | .15  | 3.44 |      |      |      |
| Clemson College  |               |     |   |   |     | .11  |     |   |   | 1.87 |                  |    |    |    |    |     | .80 | T.   | .47  | .48  |      |     |    |    |    |    |    |    |     |     |     |        | .23  | .67  |      | 3.36 |      |      |      |
| Columbia         |               |     |   |   |     | .41  |     |   |   | .24  |                  |    |    |    |    | .70 | .25 |      | .20  | .37  |      |     |    |    |    |    |    |    |     |     |     |        | .27  |      | .38  | 1.82 | 5.97 |      |      |
| Conway           |               |     |   |   |     | .22  |     |   |   |      | .30              |    |    |    |    |     | .07 | .01  | 1.22 | .01  |      |     |    |    |    |    |    |    |     |     |     |        | .14  |      | .01  | .45  | 2.56 |      |      |
| Darlington       |               |     |   |   |     | .33  |     |   |   |      | .78              |    |    |    |    |     |     | .35  | .20  | 1.50 | .50  |     |    |    |    |    |    |    |     |     |     | .10    |      | .20  | 3.37 |      |      |      |      |
| Dillon           |               |     |   |   |     | .22  |     |   |   | T.   | .62              |    |    |    |    |     |     | .05  | 1.70 | .05  |      | T.  |    |    |    |    |    |    |     |     |     |        | .07  |      | .01  | .36  | 3.65 |      |      |
| Due West         |               |     |   |   |     | .30  |     |   |   | .93  | .42              |    |    |    |    |     |     | .07  | 1.60 | .10  |      |     |    |    |    |    |    |    |     |     |     |        | .05  |      | .05  | .14  | 2.85 |      |      |
| Edisto           |               |     |   |   |     | .26  |     |   |   |      |                  |    |    |    |    |     |     | .15  |      | .57  | .49  |     |    |    |    |    |    |    |     |     |     |        | .14  |      | .04  | .16  | 3.82 |      |      |
| Effingham        |               |     |   |   |     | .25  |     |   |   |      | .75              |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     |     |     |        |      | .25  |      | .61  | 2.33 |      |      |
| Enoree           |               |     |   |   |     | .30  |     |   |   |      | 1.40             |    |    |    |    |     | T.  |      | .20  |      | .40  |     |    |    |    |    |    |    |     |     |     |        | T.   | .10  |      | .25  | 1.95 |      |      |
| Florence         |               |     |   |   |     | .46  |     |   |   |      | .47              |    |    |    |    |     |     | .20  |      | 1.50 |      |     |    |    |    |    |    |    |     |     |     |        |      | T.   |      | .90  | 3.20 |      |      |
| Georgetown       |               |     |   |   |     | .22  |     |   |   | T.   |                  |    |    |    |    |     |     | .05  |      | .50  | .13  |     |    |    |    |    |    |    |     |     |     |        | .05  | .03  | .32  | 3.01 |      |      |      |
| Greenville       |               |     |   |   |     |      |     |   |   |      | 1.46             |    |    |    |    |     |     | .58  | .16  |      | .67  |     | T. |    |    |    |    |    |     |     |     |        | .05  | T.   | .50  | .25  | 3.19 |      |      |
| Greenwood        |               |     |   |   |     | .05  |     |   |   |      | 1.55             |    |    |    |    |     |     |      | .20  |      | .98  |     |    |    |    |    |    |    |     |     |     |        |      | .10  | .16  | .20  | 1.75 | 5.06 |      |
| Heath Spring     |               |     |   |   |     | .45  |     |   |   | 1.03 |                  |    |    |    |    |     |     |      |      |      | .11  |     |    |    |    |    |    |    |     |     |     |        |      | .05  |      |      | .97  | 3.80 |      |
| Kingstree (1)    |               |     |   |   |     | .32  |     |   |   | .27  |                  |    |    |    |    |     |     | .23  |      | 1.50 | .20  |     |    |    |    |    |    |    |     |     |     |        | .12  | .20  | T.   | .02  | .56  | 3.21 |      |
| Kingstree (2)    |               |     |   |   |     | .30  |     |   |   | .20  |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     |     |     |        |      |      | .20  | T.   | .10  | 2.82 |      |
| Liberty          |               |     |   |   |     | .40  |     |   |   | 1.90 |                  |    |    |    |    |     | .10 | 1.46 | .35  |      | .60  | T.  |    |    |    |    |    |    |     |     |     |        |      |      |      |      | .25  | 2.35 |      |
| Little Mountain  |               |     |   |   |     | .21  |     |   |   | .45  | .30              |    |    |    |    |     |     | .05  |      | .74  | .08  |     |    |    |    |    |    |    |     |     |     |        |      | .65  |      | .15  | 1.75 | 6.98 |      |
| Newberry         |               |     |   |   |     | .10  |     |   |   | .93  |                  |    |    |    |    |     |     | .06  |      | .86  | T.   |     |    |    |    |    |    |    |     |     |     |        |      | .19  | .07  | .05  | .65  | 2.79 |      |
| Pelzer           |               |     |   |   |     | .30  |     |   |   |      | 1.54             |    |    |    |    |     |     | .34  | .38  |      | .70  |     |    |    |    |    |    |    |     |     |     |        |      | .04  | .15  | .03  | .95  | 3.12 |      |
| Pinopolis        |               |     |   |   |     |      |     |   |   |      |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     |     |     |        |      |      | .12  | .18  | .10  | 1.20 | 4.86 |
| St. George       |               |     |   |   |     |      |     |   |   | .07  |                  |    |    |    |    |     |     | .20  |      | 1.25 | .21  |     |    |    |    |    |    |    |     |     |     |        |      |      | .34  |      | .15  | 2.22 |      |
| St. Matthews     |               |     |   |   |     |      |     |   |   | 1.10 |                  |    |    |    |    |     |     |      |      | 1.70 |      |     |    |    |    |    |    |    |     |     |     |        |      |      |      | .70  | 3.50 |      |      |
| St. Stephens     |               |     |   |   |     | .50  |     |   |   | .10  |                  |    |    |    |    |     |     | .30  |      | 1.33 | .33  |     |    |    |    |    |    |    |     |     |     |        |      |      | .14  |      | .20  | 2.70 |      |
| Saluda           |               |     |   |   |     | .33  | .16 |   |   | .04  | .63              |    |    |    |    |     |     |      | .11  | .44  | .04  |     |    |    |    |    |    |    |     |     |     |        |      |      | .25  | .03  |      | .56  | 2.59 |
| Santuc           |               |     |   |   |     | .08  |     |   |   | .78  |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     |     |     |        |      |      | .43  |      | .05  | 1.13 | 3.26 |
| Savannah, Ga.    |               |     |   |   |     | .08  |     |   |   |      |                  |    |    |    |    |     |     | T.   | .30  |      | .06  | .43 |    |    |    |    |    |    |     |     |     |        |      | .29  | .04  | T.   | .15  | 1.81 |      |
| Smiths Mills     |               |     |   |   |     | .25  |     |   |   |      |                  |    |    |    |    |     |     | .33  | .30  | .62  |      |     |    |    |    |    |    |    |     |     |     |        |      |      |      |      | T.   | 3.00 |      |
| Society Hill     |               |     |   |   |     | .46  |     |   |   | 1.00 |                  |    |    |    |    |     |     | .25  | .10  | 1.40 | 1.00 |     |    |    |    |    |    |    |     |     |     |        |      | .19  |      | .36  | 3.79 |      |      |
| Spartanburg      |               |     |   |   |     | .16  |     |   |   | T.   | .99              |    |    |    |    |     |     | .22  | .15  |      | .60  |     |    |    |    |    |    |    |     |     |     |        |      |      | .09  | .03  |      | 3.84 |      |
| Stateburg        |               |     |   |   |     | .92  |     |   |   | .29  |                  |    |    |    |    |     |     | .11  |      | 1.56 |      |     |    |    |    |    |    |    |     |     |     |        |      | .05  | .10  |      | .57  | 3.60 |      |
| Summerville      |               |     |   |   |     | .31  |     |   |   | .05  | .07              |    |    |    |    |     |     | .54  | 1.40 | .84  |      | T.  |    |    |    |    |    |    |     |     |     |        |      | .05  | .22  | .01  | .31  | 3.80 |      |
| Sumter           |               |     |   |   |     | .91  |     |   |   | .31  |                  |    |    |    |    |     |     |      | .31  | .11  | .10  |     |    |    |    |    |    |    |     |     |     |        |      |      |      |      | .81  | 2.66 |      |
| Trenton          |               |     |   |   |     | 1.20 | .04 |   |   | .30  |                  |    |    |    |    |     |     | .25  | .78  | .22  |      |     |    |    |    |    |    |    |     |     |     |        |      |      | .43  |      |      | .42  | 3.64 |
| Trial            |               |     |   |   |     | .50  |     |   |   | .05  |                  |    |    |    |    |     |     | .22  |      | 1.49 |      |     |    |    |    |    |    |    |     |     |     |        |      |      | .40  |      |      | .37  | 3.03 |
| Walhalla         |               |     |   |   | .25 |      |     |   |   | 2.20 |                  |    |    |    |    |     |     | 1.46 |      |      |      |     |    |    |    |    |    |    |     |     |     |        |      |      | .40  |      | .50  | 2.90 | 7.71 |
| Walterboro       |               |     |   |   |     | .38  |     |   |   |      |                  |    |    |    |    |     |     |      |      |      |      |     |    |    |    |    |    |    |     |     |     |        |      |      |      |      |      |      |      |



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JANUARY, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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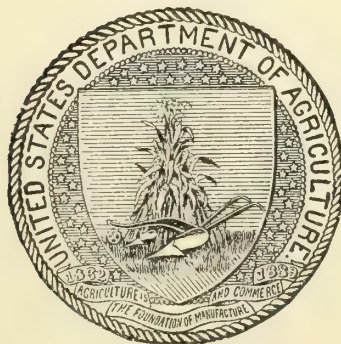
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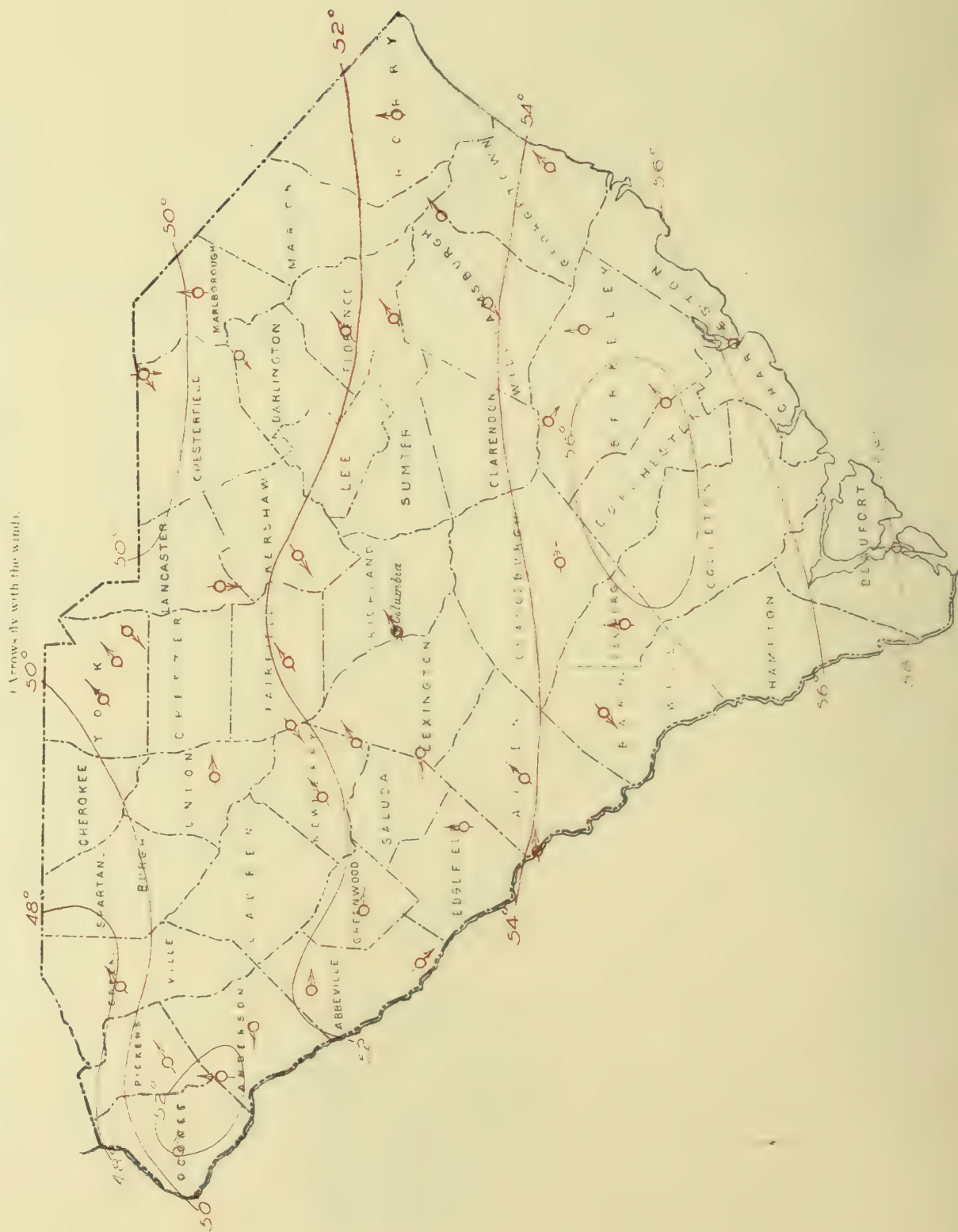
J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE  
MARCH 7, 1907.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JANUARY, 1907.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. DAUER, Section Director.

Vol. X.

COLUMBIA, S. C., JANUARY, 1907.

No. 1.

## GENERAL SUMMARY.

The monthly mean temperature was nearly eight degrees above normal. The daily mean temperatures were above normal every day from the 1st to the 20th, inclusive, and they were generally below normal from the 21st to the end of the month. The highest temperatures were noted at most stations on the 13th, 14th and 19th. The lowest temperatures were generally noted on the 24th and 29th.

Maximum temperatures of 80° or above, were recorded on from one to three days in the northeastern and eastern portions of the State except along the immediate coast, and at one station in the extreme northwestern portion (Walhalla). Maximum temperatures of 70°, or above, were recorded on an average of six days in the western counties; on from seven to sixteen days in the central and eastern portions; and on nineteen days at three stations in the east central portion.

Minimum temperatures below 32° were recorded on from seven to ten days in the western half of the State; on from four to six days in the central and eastern portions, except on the coast where the minimum fell to 32°, or below, on two days only. The minimum temperature did not fall to 32°, or below, in any portion of the State from the 1st to the 20th.

The average precipitation was the least of record for any January since 1889, when rainfall observations were first begun. The average precipitation was only 20 per cent of the normal amount. The amounts were generally less than an inch in all parts of the State, except that small, scattered areas had from one to two inches. The rainfall was below normal at every station.

There were four well defined rainy periods, beginning on the 10th, 20th, 26th and 31st. Each period was of short duration and had light rainfall, except on the 26th when the precipitation was moderately heavy in all parts of the State. The precipitation was all in the form of rain with the exception of a trace of snow in Anderson and Spartanburg counties on the 27th.

The average number of clear and partly cloudy days was larger than usual, and the average number of cloudy days was the smallest of record.

In comparison with the weather of previous Januarys, the present month most nearly resembled that of 1890, which is

the warmest January of record having had a monthly mean temperature of 54.1°, or 7.1° higher than that of the present month. The maximum temperature was higher this month, but the mean of the daily maximum temperatures was not quite so high as in 1890. The minimum temperature was one degree higher, and the mean of the daily minimum temperatures was 1.8 lower than in 1890. The present month was the second warmest, and the driest of record, and had fewer rainy and cloudy days than any January since observations were begun in 1889.

## Temperature.

The monthly mean for January, 1907, was 53.4°, which is 7.7° above normal. The highest local monthly mean was 57.7° at Beaufort, the lowest was 47.2° at Greenville. The monthly extremes were a maximum of 89° at Conway and at Florence on the 13th, and a minimum of 18° at Darlington and at Dillon on the 29th, making the State range 71°. The greatest local monthly range was 67° at Conway and at Florence, the least was 46° at Beaufort. The mean of the daily maximum temperatures was 64.1° and of the daily minimum temperatures was 42.6°, making the average daily range 21.5°.

## Precipitation.

The average precipitation was 0.71 of an inch, which is 2.88 inches below normal. The greatest local monthly amount was 1.91 inch at Georgetown, the least was trace at Catawba and at Yorkville. The greatest 24-hour rainfall was 1.11 inches at Georgetown on the 26th. The average number of days with 0.01 of an inch, or more, precipitation was 4, ranging from none at Catawba and Yorkville to 7 at Newberry.

## Wind.

The prevailing direction of the wind was from the southwest at 18 stations, from the northeast at 9 stations, from the south at 8 stations, from the west at 6 stations, and from the north, east and northwest at 2 stations each.

HIGH WINDS.—High winds were noted at Beaufort on the 19th; at Camden and Columbia on the 4th, 12th, 20th; at Charleston, Liberty, and Yorkville on the 20th.

## Sunshine and Cloudiness.

The average number of clear days was 15, of partly cloudy days was 9, and of cloudy days was 7.

## MISCELLANEOUS PHENOMENA.

SOLAR HALO.—At Liberty on the 8th.

LUNAR CORONAE.—At Winthrop College on the 7th, 8th.

SNOW.—Trace of snow fell at Anderson, Liberty and Spartanburg on the 27th.

DENSE FOG.—Dense fogs of one hour, or longer, duration were noted as follows: At Beaufort and Bowman on the 1st; at Bennettsville on the 7th, 8th, 15th; at Blackville on the 13th, 17th, 18th; at Camden on the 16th, 17th; at Charleston on the 1st, 6th, 17th; at Cheraw, Clarks Hill, Summerville,



Walterboro on the 17th; at Columbia on the 1st, 7th, 10th, 11th, 16th, 17th; at Darlington on the 17th, 18th, 19th; at Greenville on the 26th; at Heath Spring on the 6th, 7th, 17th, 31st; at Liberty on the 3d, 17th, 19th; at Little Mountain on the 17th, 18th; at Newberry on the 1st, 17th, 18th; at Santuc on the 7th, 16th, 17th; at Society Hill on the 2d, 7th, 17th, 18th; at Trenton on the 10th, 17th, 18th; at Trial on the 1st, 14th, 15th, 16th, 17th, 18th; at Winthrop College on the 7th, 8th, 16th, 17th, 25th; at Yorkville on the 3d, 7th, 8th, 16th, 17th, 18th, 17th, 18th, 26th.

## REMARKS BY OBSERVERS.

AIKEN.—The month was very warm and generally clear; Japanese magnolias were in full bloom on the 15th.—C. F. McGahan, M. D.

BATESBURG.—The weather was generally clear and warm from the 1st to the 21st, and was cold and mostly cloudy with some rainfall from the 21st to the 31st.

BEAUFORT.—The monthly mean temperature was the highest of record for any January except January 1900, at this station. The precipitation was 1.99 inch below normal.

BOWMAN.—The month was noteworthy for its mild and pleasant weather from the 1st to the 21st, from which date to the close the weather was cold, generally cloudy and typical of the ordinary winter season. Wild jessamine and plum trees were in bloom and different kinds of shrubbery began to bud.—B. O. Evans.

CAMDEN.—The month was unusually warm and the rainfall very light.—J. B. Mickle.

CLARK'S HILL.—Plum trees began blooming toward the close of the month but other fruit trees were not so advanced.—Wm. S. Middleton.

HEATH SPRING.—The month was remarkable for its warmth up to the 21st, and for its light precipitation.—J. A. Weaner.

SANTUC.—The precipitation was unusually light, and the

temperature very high during the first two decades, causing some fruit trees to bud and bloom.—E. W. Jeter.

SOCIETY HILL.—The monthly mean temperature was the highest, and the precipitation was the least in the last fifteen years for the month of January.—Maj. J. J. Lucas.

TRENTON.—The precipitation was 2.84 inches below normal.—C. A. Long.

YORKVILLE.—It was not cold enough for the formation of frost from the 1st to the 21st.—J. R. Schorb.

## BAROMETER AND WIND TABLE FOR JANUARY, 1907.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                          |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|--------------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | WINDSPEED AND DIRECTION. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.                   | Direction. | Date. |
| Augusta, Ga.      | 30.26      | 30.53    | 21    | 29.86   | 26    | 3.783           | 5.1             | 30                       | W.         | 20    |
| Charleston.       | 30.26      | 30.57    | 21    | 29.82   | 26    | 7.068           | 9.4             | 32                       | SW.        | 20    |
| Charlotte, N. C.  | 30.26      | 30.55    | 21    | 29.86   | 26    | 5.178           | 7.4             | 31                       | SW.        | 12    |
| Columbia.         | 30.26      | 30.55    | 21    | 29.84   | 26    | 4.084           | 6.3             | 32                       | SW.        | 20    |
| Savannah, Ga.     | 30.27      | 30.54    | 21    | 29.81   | 26    | 5.048           | 6.8             | 22                       | SW.        | 19    |
| Wilmington, N. C. | 30.26      | 30.59    | 21    | 29.81   | 26    | 5.397           | 7.2             | 35                       | SW.        | 20    |
| Averages.         | 30.26      | 30.59    | 21    | 29.81   | 26    | 5.228           | 7.0             | 35                       | SW.        | 20    |

## RIVER GAGE READINGS, JANUARY, 1907.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blacks.          | 2.7   | 8.2      | 2     | 1.1     | 31    |
| Callow Falls.    | 3.1   | 3.9      | 1     | 2.8     | *23   |
| Camden.          | 8.4   | 19.8     | 2     | 4.1     | 28    |
| Catawba.         | 3.0   | 8.0      | 2     | 2.0     | *29   |
| Chapells.        | 5.3   | 13.0     | 3     | 3.0     | 25    |
| Chesaw.          | 1.3   | 16.1     | 2     | 2.6     | 31    |
| Columbia.        | 1.9   | 7.5      | 2     | 1.0     | *20   |
| Edisto.          | 3.3   | 4.2      | *2    | 2.5     | *26   |
| Edlingham.       | 5.2   | 6.8      | 7     | 4.0     | *27   |
| Kingstree.       | 6.3   | 9.0      | *4    | 4.3     | *30   |
| Mt. Holly, N. C. | 2.2   | 6.0      | 1     | 1.8     | *23   |
| Pelzer.          | 3.7   | 4.5      | *1    | 3.3     | *13   |
| Ramoth.          | 9.7   | 13.2     | 6     | 7.4     | 29    |
| St. Stephens.    | 7.4   | 9.0      | 13    | 5.3     | 29    |
| Smith Mills.     | 7.8   | 11.2     | *9    | 5.5     | *27   |

\* On other dates also.

## COMPARATIVE DATA FOR JANUARY-14 YEARS.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                  |              |               | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |        |
|-----------|--------------|------------------|------------------|----------|----------|----------------|------------------|--------------|---------------|--------------------------|----------------------------------|--------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Annual. |              | Least Annual. |                          |                                  |        |
|           |              |                  |                  |          |          |                | Amount.          | Place.       | Amount.       |                          |                                  | Place. |
| 1894..... | 47.9         | 57.6             | 40.6             | 77       | 19       | 3.15           | 5.19             | Holland.     | 1.19          | Port Royal.              | 10                               | ne.    |
| 1895..... | 41.2         | 52.3             | 36.8             | 80       | 5        | 7.31           | 10.29            | Conway.      | 4.23          | Port Royal.              | 13                               | sw.    |
| 1896..... | 43.8         | 53.5             | 31.2             | 72       | 9        | 3.02           | 4.54             | Longshore.   | 1.51          | Charlew.                 | 6                                | ne.    |
| 1897..... | 42.2         | 51.4             | 34.7             | 76       | 3        | 2.29           | 4.80             | Holland.     | 0.13          | Batesburg.               | 7                                | nw.    |
| 1898..... | 49.2         | 59.3             | 39.1             | 82       | 8        | 1.80           | 4.06             | Central.     | 0.19          | Charleston.              | 6                                | sw.    |
| 1899..... | 44.4         | 54.2             | 31.7             | 78       | 17       | 4.72           | 6.75             | Holland.     | 2.81          | Charleston.              | 11                               | n.     |
| 1900..... | 44.0         | 54.6             | 33.5             | 75       | 3        | 2.43           | 5.65             | Georgetown.  | 1.58          | Stateburg.               | 8                                | nw.    |
| 1901..... | 45.1         | 55.3             | 31.9             | 81       | 18       | 3.55           | 5.60             | Liberty.     | 1.20          | Pinebluff.               | 9                                | nw.    |
| 1902..... | 42.4         | 53.0             | 31.8             | 80       | 11       | 2.05           | 4.18             | Longshore.   | 0.36          | Blackville.              | 5                                | sw.    |
| 1903..... | 43.7         | 52.4             | 35.0             | 77       | 13       | 3.85           | 7.10             | Georgetown.  | 2.10          | Wadala.                  | 11                               | w.     |
| 1904..... | 40.2         | 50.5             | 30.0             | 74       | 8        | 2.97           | 4.78             | Summerville. | 0.82          | Bennettsville.           | 8                                | n.     |
| 1905..... | 41.4         | 51.5             | 31.2             | 77       | 8        | 2.00           | 4.84             | Wallalla.    | 0.30          | St. George.              | 7                                | w.     |
| 1906..... | 47.0         | 56.1             | 37.8             | 83       | 12       | 5.85           | 11.60            | Liberty.     | 3.52          | Bennettsville.           | 11                               | ne.    |
| 1907..... | 53.4         | 64.1             | 42.6             | 87       | 18       | 0.71           | 1.91             | Georgetown.  | T.            | Yorkville.               | 4                                | sw.    |



## CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY 1907.

| STATIONS.        | Counties.     | Elevation—feet. | Length of record—years. | Temperature—degrees Fahrenheit. |                             |          |       |         |       |                    | Precipitation—Inches. |                             |                  |                     |              |                     |              | Snow—Inches. | Wind—Direction and Force. | Observers.             |               |
|------------------|---------------|-----------------|-------------------------|---------------------------------|-----------------------------|----------|-------|---------|-------|--------------------|-----------------------|-----------------------------|------------------|---------------------|--------------|---------------------|--------------|--------------|---------------------------|------------------------|---------------|
|                  |               |                 |                         | Mean.                           | Deviations from the normal. | Highest. | Date. | Lowest. | Date. | Opened daily—days. | Total.                | Deviations from the normal. | Gravest in days. | Per. snowfall—days. | No. of days. | Per. snowfall—days. | No. of days. |              |                           |                        |               |
| Aiken.           | Aiken.        | 505             | 23                      | 53.8                            | +7.0                        | 76       | 11    | 25      | 20    | 36                 | 1.35                  | -2.76                       | 0.65             | 0                   | 5            | 26                  | 3            | 2            | sw.                       | C. F. McGahan, M. D.   |               |
| Allendale.       | Barnwell.     | 186             | 19                      | 55.1                            | +11.6                       | 77       | 13    | 28      | 20    | 35                 | 0.84                  | -2.10                       | 0.15             | 0                   | 5            | 21                  | 0            | 10           | sw.                       | A. R. Hoke.            |               |
| Anderson.        | Anderson.     | 791             | 0                       | 51.2                            | 1.9-8                       | 70       | 14    | 23      | 29    | 27                 | 0.02                  | -1.87                       | 0.23             | 0                   | 3            | 15                  | 1            | 1            | e.                        | H. H. Russell.         |               |
| Angusta, Ga.     | Richmond.     | 131             | 36                      | 54.7                            | +8.1                        | 79       | 14    | 28      | 29    | 35                 | 0.87                  | -3.60                       | 0.11             | 0                   | 8            | 13                  | 11           | 7            | w.                        | Weather Bureau.        |               |
| Barksdale.       | Laurens.      | 680             | 0                       | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | .....                       | .....            | .....               | .....        | .....               | .....        | .....        | .....                     | J. T. Garrett.         |               |
| Batesburg.       | Lexington.    | 650             | 19                      | 57.1                            | +6.2                        | 77       | 8     | 20      | *24   | 35                 | 0.56                  | -3.28                       | 0.43             | 0                   | 2            | 12                  | 9            | 10           | e.                        | L. J. Hite.            |               |
| Beaufort.        | Beaufort.     | 20              | 21                      | 57.7                            | +7.4                        | 72       | 14    | 29      | 20    | 31                 | 0.16                  | -2.69                       | 0.28             | 0                   | 6            | 18                  | 9            | 1            | se.                       | S. M. Benton.          |               |
| Bennettsville.   | Marlboro.     | 151             | 6                       | 50.0                            | .....                       | 83       | 13    | 20      | 29    | 35                 | 0.41                  | .....                       | 0.35             | 0                   | 2            | 18                  | 7            | 10           | 8.                        | C. S. McCall.          |               |
| Blackville.      | Richmond.     | 269             | 19                      | 55.5                            | +9.6                        | 79       | 16    | 25      | *24   | 34                 | 0.74                  | -2.76                       | 0.45             | 0                   | 5            | 15                  | 7            | 9            | ne.                       | G. D. C. Lange.        |               |
| Bears.           | Fairfield.    | 763             | 2                       | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | .....                       | .....            | .....               | .....        | .....               | .....        | .....        | .....                     | T. S. McMeekin.        |               |
| Bowman.          | Orangeburg.   | 100             | 0                       | 53.5                            | .....                       | 79       | 14    | 24      | 29    | 30                 | 1.07                  | .....                       | 1.08             | 0                   | 5            | 22                  | 4            | 5            | w.                        | B. O. Evans.           |               |
| Culhoum Falls.   | Abbeville.    | 508             | 14                      | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | -3.54                       | 0.44             | 0                   | 2            | 25                  | 0            | 5            | nw.                       | J. J. Pender.          |               |
| Camden (1).      | Kershaw.      | .....           | 2                       | 52.3                            | .....                       | 77       | 11    | 20      | 24    | 32                 | 0.67                  | .....                       | 0.43             | 0                   | 4            | 10                  | 6            | 9            | ne.                       | P. B. Melber.          |               |
| Camden (2).      | Kershaw.      | 222             | 41                      | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | .....                       | .....            | .....               | .....        | .....               | .....        | .....        | .....                     | W. C. Brown.           |               |
| Catawba.         | York.         | .....           | 2                       | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | .....                       | .....            | .....               | .....        | .....               | .....        | .....        | .....                     | James Y. Price.        |               |
| Chappells.       | Newberry.     | 402             | 2                       | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | .....                       | .....            | .....               | .....        | .....               | .....        | .....        | .....                     | J. A. Melan.           |               |
| Charleston.      | Charleston.   | 48              | 58                      | 56.7                            | +6.6                        | 78       | 13    | 31      | 29    | 25                 | 0.77                  | .....                       | 0.28             | 0                   | 4            | 17                  | 3            | 11           | .....                     | Weather Bureau.        |               |
| Charlotte, N. C. | Mecklenburg.  | 808             | 29                      | 49.6                            | +8.4                        | 77       | 15    | 21      | 24    | 27                 | 0.51                  | -4.03                       | 0.22             | 1                   | 7            | 12                  | 6            | 13           | sw.                       | Weather Bureau.        |               |
| Cheraw (1).      | Chesterfield. | 141             | 19                      | 59.4                            | +0.8                        | 79       | 14    | 21      | 29    | 29                 | 0.47                  | -2.84                       | 0.44             | 0                   | 4            | 7                   | 10           | 11           | n.                        | W. R. Godfrey.         |               |
| Cheraw (2).      | .....         | 111             | 14                      | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | -2.32                       | 0.42             | 0                   | 3            | 19                  | 8            | 13           | ne.                       | Jno. H. Powe.          |               |
| Clarks Hill.     | Edgefield.    | 500             | 5                       | 53.4                            | .....                       | 77       | 14    | 21      | 29    | 35                 | 1.57                  | .....                       | 0.19             | 0                   | 4            | .....               | .....        | .....        | .....                     | Wm. S. Middleton.      |               |
| Clayton College. | Oconee.       | 850             | 16                      | 52.1                            | +10.2                       | 73       | *8    | 21      | 29    | 31                 | 1.10                  | .....                       | 3.47             | 0.53                | 0            | 16                  | 5            | 1            | 8.                        | Jno. N. Hook.          |               |
| Columbia.        | Richland.     | 351             | 20                      | 53.2                            | +7.6                        | 74       | 14    | 24      | 24    | 33                 | 0.80                  | -3.00                       | 0.55             | 0                   | 5            | 8                   | 11           | 9            | sw.                       | Central Office.        |               |
| Conway.          | Horry.        | 25              | 15                      | 52.8                            | .....                       | 79       | 19    | 22      | 29    | 33                 | 0.85                  | -2.20                       | 0.65             | 0                   | 4            | 23                  | 1            | 7            | se.                       | P. C. Quattlebaum.     |               |
| Darlington.      | Darlington.   | 175             | 12                      | 51.6                            | .....                       | 81       | 14    | 18      | 29    | 43                 | 0.42                  | -1.90                       | 0.29             | 0                   | 5            | 13                  | 7            | 11           | .....                     | D. C. McCall.          |               |
| Dillon.          | Marion.       | 100             | 3                       | 51.6                            | .....                       | 81       | 14    | 18      | 29    | 42                 | 0.27                  | .....                       | 0.10             | 0                   | 3            | 15                  | 6            | 10           | w.                        | A. E. Rowell.          |               |
| Due West.        | Abbeville.    | 730             | 6                       | 52.2                            | .....                       | 75       | 14    | 24      | 29    | 32                 | 1.02                  | .....                       | 0.66             | 0                   | 4            | 15                  | 6            | 10           | w.                        | Rev. O. Y. Bonner.     |               |
| Edisto.          | Barnwell.     | 127             | 14                      | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | -2.47                       | 0.49             | 0                   | 2            | 19                  | 4            | 8            | se.                       | Mrs. M. Thompson.      |               |
| Elkington.       | Florence.     | 105             | 15                      | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | 0.51                        | -2.91            | 0.25                | 0            | 3                   | 20           | 1            | 16                        | sw.                    | H. B. McCall. |
| Enoree.          | Spartanburg.  | 987             | 2                       | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | .....                       | .....            | .....               | .....        | .....               | .....        | .....        | .....                     | P. R. Thompson.        |               |
| Florence.        | Florence.     | 136             | 19                      | 51.9                            | +8.6                        | 79       | 13    | 22      | *24   | 35                 | 0.26                  | -2.28                       | 0.23             | 0                   | 2            | 18                  | 1            | 12           | sw.                       | L. K. G. Ibert.        |               |
| Georgetown.      | Georgetown.   | 12              | 14                      | 54.5                            | +6.9                        | 70       | *13   | 25      | 24    | 35                 | 1.91                  | -1.95                       | 1.11             | 0                   | 3            | 23                  | 8            | 0            | sw.                       | Red Whiford.           |               |
| Greenville.      | Greenville.   | 689             | 15                      | 47.2                            | +6.4                        | 75       | *14   | 20      | *24   | 34                 | 0.38                  | -4.09                       | 0.16             | 0                   | 4            | 13                  | 4            | 14           | sw.                       | Mrs. S. A. Crittenden. |               |
| Greenwood.       | Greenwood.    | 671             | 19                      | 5.8                             | +9.2                        | 72       | 14    | 21      | 30    | 9                  | 0.44                  | -3.32                       | 0.25             | 0                   | 3            | 14                  | 0            | 17           | n.                        | M. A. Calhoun.         |               |
| Heath Spring.    | Laurens.      | 508             | 6                       | 51.0                            | .....                       | 70       | *14   | 20      | 29    | 30                 | 0.86                  | .....                       | 0.60             | 0                   | 5            | 15                  | 5            | 11           | n.                        | J. A. Wenner.          |               |
| Kingstree (1).   | Williamsburg. | 54              | 19                      | 56.2                            | +9.6                        | 78       | 14    | 28      | *24   | 38                 | 0.86                  | -2.44                       | 0.50             | 0                   | 3            | 21                  | 3            | 7            | ne.                       | J. A. Scott.           |               |
| Kingstree (2).   | .....         | 51              | 13                      | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | -2.36                       | 0.48             | 0                   | 2            | 19                  | 3            | 9            | ne.                       | A. O. Matthews.        |               |
| Liberty.         | Pickens.      | 600             | 13                      | 51.3                            | +1.4                        | 74       | *8    | 22      | 19    | 32                 | 0.76                  | .....                       | 0.40             | 0                   | 4            | 12                  | 8            | 11           | sw.                       | Jno. T. Boggs.         |               |
| Little Mountain. | Newberry.     | 630             | 14                      | 52.4                            | +7.1                        | 78       | 14    | 22      | *4    | 34                 | 1.71                  | -2.72                       | 0.53             | 0                   | 4            | 13                  | 9            | 9            | sw.                       | John M. Souse, M. D.   |               |
| Newberry.        | Newberry.     | 502             | 3                       | 51.8                            | +9.3                        | 77       | 19    | 21      | 29    | 29                 | 0.00                  | -3.28                       | 0.38             | 0                   | 7            | 13                  | 7            | 11           | sw.                       | A. G. Peterson.        |               |
| Pelzer.          | Anderson.     | 873             | 2                       | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | .....                       | .....            | .....               | .....        | .....               | .....        | .....        | .....                     | J. G. Ward.            |               |
| Piedmont S.      | Berkeley.     | 54              | 14                      | .....                           | .....                       | .....    | ..... | .....   | ..... | .....              | .....                 | .....                       | .....            | .....               | .....        | .....               | .....        | .....        | .....                     | E. P. Raymond.         |               |

Walterboro on the 17th; at Columbia on the 1st, 7th, 10th, 11th, 16th, 17th; at Darlington on the 17th, 18th, 19th; at Greenville on the 26th; at Heath Spring on the 6th, 7th, 17th, 31st; at Liberty on the 3d, 17th, 19th; at Little Mountain on the 17th, 18th; at Newberry on the 1st, 17th, 18th; at Santuc on the 7th, 16th, 17th; at Society Hill on the 2d, 7th, 17th, 18th; at Trenton on the 10th, 17th, 18th; at Trial on the 1st, 14th, 15th, 16th, 17th, 18th; at Winthrop College on the 7th, 8th, 16th, 17th, 25th; at Yorkville on the 3d, 7th, 8th, 16th, 17th, 18th, 17th, 18th, 26th.

## REMARKS BY OBSERVERS.

AIKEN.—The month was very warm and generally clear; Japanese magnolias were in full bloom on the 15th.—C. F. McGahan, M. D.

BATESBURG.—The weather was generally clear and warm from the 1st to the 21st, and was cold and mostly cloudy with some rainfall from the 21st to the 31st.

BEAUFORT.—The monthly mean temperature was the highest of record for any January except January 1900, at this station. The precipitation was 1.99 inch below normal.

BOWMAN.—The month was noteworthy for its mild and pleasant weather from the 1st to the 21st, from which date to the close the weather was cold, generally cloudy and typical of the ordinary winter season. Wild jessamine and plum trees

temperature very high during the first two decades, causing some fruit trees to bud and bloom.—E. W. Jeter.

SOCIETY HILL.—The monthly mean temperature was the highest, and the precipitation was the least in the last fifteen years for the month of January.—Maj. J. J. Lucas.

TRENTON.—The precipitation was 2.84 inches below normal.—C. A. Long.

YORKVILLE.—It was not cold enough for the formation of frost from the 1st to the 21st.—J. R. Schorb.

## BAROMETER AND WIND TABLE FOR JANUARY, 1907.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.26      | 30.53    | 21    | 29.86   | 26    | 3.783           | 5.1             | 30                | W.         | 20    |
| Charleston.       | 30.26      | 30.57    | 21    | 29.82   | 26    | 7.008           | 9.4             | 32                | SW.        | 20    |
| Charlotte, N. C.  | 30.26      | 30.55    | 21    | 29.86   | 20    | 5.178           | 7.4             | 31                | SW.        | 12    |
| Columbia.         | 30.26      | 30.55    | 21    | 29.84   | 26    | 4.684           | 6.3             | 32                | SW.        | 20    |
| Savannah, Ga.     | 30.27      | 30.54    | 21    | 29.81   | 26    | 5.048           | 6.8             | 22                | SW.        | 19    |
| Wilmington, N. C. | 30.26      | 30.54    | 21    | 29.84   | 26    | 5.917           | 7.2             | 35                | SW.        | 20    |
| Averages.         | 30.26      | 30.59    | 21    | 29.81   | 26    | 5.228           | 7.0             | 35                | SW.        | 20    |

## RIVER GAGE READINGS, JANUARY, 1907.

Recipients of the January, 1907, South Carolina monthly kindly paste the table below over the table at bottom of page 4 of the monthly report for January, 1907.

## COMPARATIVE STATE DATA FOR JANUARY-14 YEARS.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |              |                |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|--------------|----------------|----------------|--------------------------|----------------------------------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |              | Least Monthly. |                |                          |                                  |
|           |              |                  |                  |          |          |                | Amount.           | Place.       | Amount.        | Place.         |                          |                                  |
| 1894..... | 47.9         | 57.6             | 40.6             | 77       | 19       | 3.15           | 5.19              | Holland.     | 1.19           | Port Royal.    | 10                       | ne.                              |
| 1895..... | 44.2         | 52.3             | 36.8             | 80       | 5        | 7.31           | 10.29             | Conway.      | 4.23           | Port Royal.    | 13                       | sw.                              |
| 1896..... | 43.8         | 53.5             | 34.2             | 72       | 9        | 3.02           | 4.54              | Longshore.   | 1.51           | Cheraw.        | 6                        | ne.                              |
| 1897..... | 42.2         | 51.4             | 32.7             | 76       | 3        | 2.29           | 4.80              | Holland.     | 0.13           | Batesburg.     | 7                        | nw.                              |
| 1898..... | 49.2         | 59.3             | 39.1             | 82       | 8        | 1.80           | 4.06              | Central.     | 0.19           | Charleston.    | 6                        | sw.                              |
| 1899..... | 44.4         | 54.2             | 34.7             | 78       | 17       | 4.72           | 6.75              | Holland.     | 2.84           | Charleston.    | 11                       | n.                               |
| 1900..... | 44.0         | 54.6             | 33.5             | 75       | 3        | 2.43           | 5.65              | Georgetown.  | 1.58           | Stateburg.     | 8                        | nw.                              |
| 1901..... | 45.1         | 55.3             | 34.9             | 81       | 18       | 3.55           | 5.60              | Liberty.     | 1.20           | Pinopolis.     | 9                        | nw.                              |
| 1902..... | 42.4         | 53.0             | 31.8             | 80       | 11       | 2.05           | 4.18              | Longshore.   | 0.36           | Blackville.    | 11                       | sw.                              |
| 1903..... | 43.7         | 52.4             | 35.0             | 77       | 13       | 3.85           | 7.10              | Georgetown.  | 2.40           | Walhalla.      | 5                        | w.                               |
| 1904..... | 40.2         | 50.5             | 30.0             | 74       | 8        | 2.97           | 4.78              | Summerville. | 0.82           | Bennettsville. | 8                        | n.                               |
| 1905..... | 41.3         | 51.5             | 31.2             | 77       | 8        | 2.00           | 4.84              | Walhalla.    | 0.30           | St. George.    | 7                        | w.                               |
| 1906..... | 47.0         | 56.1             | 37.8             | 83       | 12       | 5.85           | 11.60             | Liberty.     | 3.52           | Bennettsville. | 11                       | ne.                              |
| 1907..... | 53.4         | 64.1             | 42.6             | 89       | 18       | 0.71           | 1.91              | Georgetown.  | T.             | Yorkville.     | 4                        | sw.                              |



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY 1907.

| STATIONS.                             | Counties.    | Elevation in feet. | Length of record in years. | Temperature in degrees Fahrenheit. |                            |          |       |         |       |                      | Precipitation in inches. |                            |                      |        |       |              |              | Sky.         |              |                       |              |  |  |  | Observers. |
|---------------------------------------|--------------|--------------------|----------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|----------------------|--------------------------|----------------------------|----------------------|--------|-------|--------------|--------------|--------------|--------------|-----------------------|--------------|--|--|--|------------|
|                                       |              |                    |                            | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily fall. | Total.                   | Departure from the normal. | Greatest daily fall. | Total. | Days. | No. of days. | No. of days. | No. of days. | No. of days. | No. of days.          | No. of days. |  |  |  |            |
|                                       |              |                    |                            |                                    |                            |          |       |         |       |                      |                          |                            |                      |        |       |              |              |              |              |                       |              |  |  |  |            |
| Aiken                                 | Aiken        | 508                | 23                         | 53.8                               | +7.9                       | 76       | 11    | 25      | 20    | 15                   | 1.15                     | -2.70                      | 0.65                 | 0      | 5     | 26           | 1            | 2            | sw.          | C. F. McGowan, M. D.  |              |  |  |  |            |
| Allendale                             | Barnwell     | 186                | 19                         | 55.4                               | +11.6                      | 77       | 15    | 28      | 20    | 35                   | 0.84                     | -2.10                      | 0.45                 | 0      | 5     | 21           | 0            | 10           | ne.          | A. B. Hines           |              |  |  |  |            |
| Anderson                              | Anderson     | 704                | 6                          | 51.2                               | +9.8                       | 70       | 14    | 24      | 19    | 27                   | 0.62                     | -4.27                      | 0.23                 | 0      | 5     | 15           | 1            | 1            | e.           | H. H. Russell         |              |  |  |  |            |
| Augusta, Ga.                          | Richmond     | 134                | 36                         | 54.7                               | +8.1                       | 79       | 14    | 28      | 29    | 35                   | 0.87                     | -3.60                      | 0.31                 | 0      | 8     | 12           | 11           | 8            | w.           | Weather Bureau        |              |  |  |  |            |
| Barksdale                             | Laurens      | 680                | 6                          |                                    |                            |          |       |         |       |                      |                          |                            |                      | 0      | 8     | 12           | 11           | 8            | e.           | J. T. Garrett         |              |  |  |  |            |
| Batesburg                             | Lexington    | 656                | 19                         | 52.1                               | +6.2                       | 77       | 8     | 20      | *24   | 35                   | 0.56                     | -3.28                      | 0.43                 | 0      | 2     | 12           | 9            | 10           | w.           | E. J. Hite            |              |  |  |  |            |
| Beaufort                              | Beaufort     | 20                 | 21                         | 57.7                               | +7.4                       | 77       | 11    | 20      | 20    | 31                   | 1.16                     | -2.19                      | 0.28                 | 0      | 6     | 18           | 9            | 4            | 8.           | S. M. Benton          |              |  |  |  |            |
| Bennettsville                         | Marlboro     | 151                | 6                          | 50.0                               |                            | 78       | 13    | 20      | 29    | 35                   | 0.41                     | -0.35                      | 0.35                 | 0      | 2     | 18           | 3            | 10           | ne.          | C. S. McCall          |              |  |  |  |            |
| Blackville                            | Barnwell     | 266                | 19                         | 55.5                               | +9.6                       | 79       | 16    | 25      | *24   | 34                   | 0.74                     | -2.70                      | 0.45                 | 0      | 5     | 15           | 7            | 9            | ne.          | G. D. C. Lange        |              |  |  |  |            |
| Barns                                 | Fairfield    | 243                | 2                          |                                    |                            |          |       |         |       |                      |                          |                            | 0.36                 | 0      | 1     | 11           | 10           | 1            | ne.          | T. S. McMeekin        |              |  |  |  |            |
| Bowman                                | Orangeburg   | 160                | 6                          | 53.5                               |                            | 79       | 11    | 21      | 19    | 36                   | 1.17                     | -1.08                      | 0.6                  | 0      | 5     | 22           | 4            | 5            | w.           | B. O. Lucas           |              |  |  |  |            |
| Calhoun Falls                         | Abbeville    | 508                | 14                         |                                    |                            |          |       |         |       |                      | 0.55                     | -3.54                      | 0.44                 | 0      | 2     | 25           | 0            | 5            | ne.          | P. J. Foster          |              |  |  |  |            |
| Canden (1)                            | Kershaw      |                    | 2                          | 52.3                               |                            | 77       | 11    | 20      | 24    | 32                   | 0.67                     | -0.43                      | 0.43                 | 0      | 4     | 16           | 6            | 9            | ne.          | J. B. McElie          |              |  |  |  |            |
| Canden (2)                            | Kershaw      | 222                | 41                         |                                    |                            |          |       |         |       |                      | 0.30                     | -3.04                      | 0.20                 | 0      | 1     | 16           | 2            | 11           | ne.          | W. C. Brown           |              |  |  |  |            |
| Catawba                               | York         | 2                  | 2                          |                                    |                            |          |       |         |       |                      | T.                       | T.                         | T.                   | 0      | 0     | 15           | 1            | 15           | ne.          | James Y. Price        |              |  |  |  |            |
| Chappells                             | Newberry     | 402                | 2                          |                                    |                            |          |       |         |       |                      | 0.77                     | -0.28                      | 0.28                 | 0      | 4     | 17           | 3            | 11           |              | J. A. Melan           |              |  |  |  |            |
| Charleston                            | Charleston   | 18                 | 38                         | 56.6                               | +6.6                       | 78       | 11    | 31      | 19    | 25                   | 0.88                     | -3.13                      | 0.76                 | 0      | 5     | 12           | 12           | 7            | sw.          | Weather Bureau        |              |  |  |  |            |
| Charlotte, N. C.                      | Mecklenburg  | 808                | 29                         | 49.6                               | +8.4                       | 77       | 15    | 21      | 24    | 27                   | 0.51                     | -4.63                      | 0.22                 | T.     | 7     | 12           | 6            | 11           | sw.          | Weather Bureau        |              |  |  |  |            |
| Cheraw (1)                            | Chesterfield | 111                | 10                         | 49.4                               | +6.8                       | 79       | 14    | 21      | 19    | 19                   | 0.47                     | -2.84                      | 0.44                 | 0      | 4     | 7            | 1            | 11           | n.           | W. R. Godfrey         |              |  |  |  |            |
| Cheraw (2)                            |              | 111                | 14                         |                                    |                            |          |       |         |       |                      | 0.54                     | -2.32                      | 0.42                 | 0      | 3     | 10           | 8            | 13           | ne.          | J. H. G. Pave         |              |  |  |  |            |
| Clarks Hill                           | Edgefield    | 800                | 16                         | 53.4                               |                            | 77       | 11    | 21      | 19    | 35                   | 1.37                     | -3.47                      | 0.53                 | 0      | 4     | 16           | 5            | 10           | s.           | Wm. S. Middleton      |              |  |  |  |            |
| Clemson College                       | Oconee       | 850                | 16                         | 52.1                               | +10.2                      | 73       | *8    | 21      | 19    | 31                   | 1.16                     | -3.47                      | 0.53                 | 0      | 4     | 16           | 5            | 10           | sw.          | Central Office        |              |  |  |  |            |
| Columbia                              | Richland     | 351                | 20                         | 53.2                               | +7.6                       | 74       | 13    | 24      | 24    | 33                   | 0.80                     | -3.00                      | 0.55                 | 0      | 5     | 8            | 11           | 9            | sw.          | P. C. Quattlebaum     |              |  |  |  |            |
| Conway                                | Horry        | 25                 | 15                         | 52.8                               |                            | 79       | 19    | 22      | 19    | 53                   | 0.85                     | -2.19                      | 0.65                 | 0      | 4     | 23           | 1            | 7            | s.           | D. C. McCall          |              |  |  |  |            |
| Darlington                            | Darlington   | 175                | 12                         | 51.6                               |                            | 81       | 14    | 18      | 19    | 43                   | 0.42                     | -1.90                      | 0.19                 | 0      | 5     | 13           | 7            | 11           |              | A. E. Rowell          |              |  |  |  |            |
| Dillon                                | Myrtle       | 106                | 3                          | 51.6                               |                            | 81       | 14    | 18      | 19    | 42                   | 1.02                     | -0.10                      | 0.10                 | 0      | 3     | 15           | 6            | 10           | w.           | Rev. O. Y. Bonner     |              |  |  |  |            |
| Dur West                              | Abbeville    | 73                 | 6                          | 52.2                               |                            | 75       | 14    | 14      | 14    | 32                   | 1.27                     | -0.66                      | 0.66                 | 0      | 4     | 15           | 6            | 10           | w.           | Mrs. M. Thompson      |              |  |  |  |            |
| Edisto                                | Blount       | 127                | 14                         |                                    |                            |          |       |         |       |                      | 0.76                     | -2.47                      | 0.49                 | 0      | 2     | 19           | 4            | 8            | s.           | H. B. McCall          |              |  |  |  |            |
| Ellington                             | Florence     | 105                | 15                         |                                    |                            |          |       |         |       |                      | 0.51                     | -2.91                      | 0.25                 | 0      | 3     | 20           | 1            | 10           | sw.          | P. R. T. ompson       |              |  |  |  |            |
| Enoree                                | Spartanburg  | 98                 | 2                          |                                    |                            |          |       |         |       |                      |                          |                            |                      | 0      |       |              |              |              |              | H. K. G. bert         |              |  |  |  |            |
| Florence                              | Florence     | 146                | 19                         | 51.9                               | +8.6                       | 79       | 13    | 22      | *24   | 35                   | 0.26                     | -2.28                      | 0.23                 | 0      | 2     | 18           | 1            | 12           | sw.          | Red Whiford           |              |  |  |  |            |
| Georgetown                            | Georgetown   | 12                 | 14                         | 54.3                               | +6.9                       | 70       | *13   | 25      | 24    | 35                   | 1.91                     | -1.90                      | 1.11                 | 0      | 3     | 23           | 8            | 0            | sw.          | Mrs. S. A. Crittenden |              |  |  |  |            |
| Greenville                            | Greenville   | 980                | 15                         | 47.2                               | +6.4                       | 75       | *14   | 20      | *24   | 34                   | 0.38                     | -4.9                       | 0.16                 | 0      | 4     | 13           | 4            | 11           | sw.          | M. M. Calhoun         |              |  |  |  |            |
| Greenwood                             | Greenwood    | 671                | 19                         | 51.8                               | +9.2                       | 72       | 14    | 21      | 30    | 9                    | 0.44                     | -3.32                      | 0.25                 | 0      | 3     | 14           | 0            | 17           | w.           | J. A. Weaver          |              |  |  |  |            |
| Heath Spring                          | Lancaster    | 578                | 6                          | 51.0                               |                            | 70       | *11   | 20      | 9     | 30                   | 0.86                     | -2.44                      | 0.50                 | 0      | 3     | 21           | 3            | 7            | ne.          | J. A. Scott           |              |  |  |  |            |
| Kingstree (1)                         | Williamsburg | 54                 | 19                         | 56.2                               | +9.6                       | 78       | 11    | 28      | *24   | 38                   | 0.86                     | -2.44                      | 0.50                 | 0      | 3     | 21           | 3            | 7            | ne.          | A. O. Matthews        |              |  |  |  |            |
| Kingstree (2)                         |              | 51                 | 13                         |                                    |                            |          |       |         |       |                      | 0.86                     | -2.36                      | 0.48                 | 0      | 2     | 19           | 3            | 9            | ne.          | John T. Boggs         |              |  |  |  |            |
| Liberty                               | Pickens      | 600                | 13                         | 51.3                               | +10.4                      | 71       | *8    | 22      | 19    | 32                   | 0.70                     | -4.49                      | 0.40                 | T.     | 4     | 12           | 8            | 11           | sw.          | John M. Sease, M. D.  |              |  |  |  |            |
| Little Mountain                       | Newberry     | 630                | 14                         | 52.4                               | +7.1                       | 78       | 14    | 22      | *24   | 34                   | 0.71                     | -2.72                      | 0.53                 | 0      | 4     | 13           | 9            | 9            | sw.          | W. G. Peterson        |              |  |  |  |            |
| Newberry                              | Newberry     | 502                | 3                          | 51.8                               | +9.3                       | 77       | 19    | 21      | 29    | 19                   | 1.00                     | -3.28                      | 0.38                 | 0      | 7     | 13           | 7            | 11           | sw.          | John M. Ward          |              |  |  |  |            |
| Polzer                                | Anderson     | 573                | 2                          |                                    |                            |          |       |         |       |                      | 0.56                     | -0.38                      | 0.38                 | 0      | 3     | 10           | 10           | 11           | s.           | E. P. Ravenel         |              |  |  |  |            |
| Pinopolis                             | Berkeley     | 54                 | 14                         |                                    |                            |          |       |         |       |                      | 1.23                     | -1.90                      | 0.56                 | 0      | 5     | 18           | 0            | 13           |              | G. T. Lewis           |              |  |  |  |            |
| St. George                            | Dorchester   | 100                | 19                         | 56.2                               |                            | 70       | *14   | 27      | *22   | 31                   | 0.83                     | -1.90                      | 0.58                 | 0      | 2     | 20           | 0            | 11           |              | J. S. Wannamaker      |              |  |  |  |            |
| St. Matthews                          | Orangeburg   | 260                | 19                         | 52.8                               | +5.9                       | 70       | 14    | 24      | 29    | 40                   | 1.09                     | -2.24                      | 0.72                 | 0      | 4     | 20           | 6            | 5            | q.           | C. T. Shuler          |              |  |  |  |            |
| St. Stephen                           | Berkeley     | 73                 | 15                         |                                    |                            |          |       |         |       |                      | 0.81                     | -0.25                      | 0.25                 | 0      | 5     | 20           | 1            | 10           | sw.          | Alvin Eldridge        |              |  |  |  |            |
| Saluda                                | Saluda       | 536                | 6                          | 54.7                               |                            | 77       | 14    | 19      | 19    | 34                   | 0.51                     | -3.11                      | 0.24                 | 0      | 4     | 13           | 7            | 11           | w.           | E. W. Jeter           |              |  |  |  |            |
| Santee                                | Union        | 512                | 13                         | 50.7                               | +8.2                       | 77       | 14    | 19      | 19    | 35                   | 0.50                     | -2.69                      | 0.38                 | 0      | 5     | 13           | 13           | 5            |              | Weather Bureau        |              |  |  |  |            |
| Savannah, Ga.                         | Chatham      | 71                 | 35                         | 59.0                               | +8.0                       | 77       | 14    | 51      | 29    | 28                   | 0.25                     | -2.52                      | 0.25                 | 0      | 1     | 15           | 0            | 10           | sw.          | H. van Keulen         |              |  |  |  |            |
| South Mills                           | Williamsburg | 62                 | 12                         |                                    |                            |          |       |         |       |                      | 0.25                     | -2.52                      | 0.25                 | 0      | 5     | 15           | 0            | 10           | sw.          | J. J. Lucas           |              |  |  |  |            |
| Society Hill                          | Darlington   | 102                | 16                         | 50.4                               | +7.3                       | 76       | *13   | 22      | *23   | 33                   | 0.44                     | -2.72                      | 0.31                 | 0      | 3     | 18           | 7            | 6            | ne.          | P. P. Robinson        |              |  |  |  |            |
| Spartanburg                           | Spartanburg  | 875                | 10                         | 9.8                                | +7.7                       | 79       | *14   | 19      | 19    | 41                   | 0.38                     | -2.71                      | 0.16                 | T.     | 3     | 12           | 2            | 17           |              | W. W. Anderson, M. D. |              |  |  |  |            |
| Stateburg                             | Sumter       | 500                | 30                         |                                    |                            |          |       |         |       |                      |                          |                            |                      |        |       |              |              |              |              | Miss E. H. Gadden     |              |  |  |  |            |
| Summerville                           | Dorchester   | 78                 | 10                         | 56.8                               | +8.8                       | 80       | *14   | 20      | *24   | 40                   | 0.95                     | -2.60                      | 0.70                 | 0      | 4     | 8            | 22           | 1            | sw.          | T. M. Bradley         |              |  |  |  |            |
| Sumter                                | Sumter       | 169                | 0                          |                                    |                            |          |       |         |       |                      | 1.16                     | -0.90                      | 0.90                 | 0      | 3     | 27           | 1            | 0            |              | C. A. Long            |              |  |  |  |            |
| Trenton                               | Edgefield    | 620                | 14                         | 52.6                               | +5.1                       | 78       | 16    | 23      | 19    | 31                   | 1.07                     | -2.84                      | 0.40                 | 0      | 4     | 15           | 11           | 5            | s.           | Etsell Gaillard       |              |  |  |  |            |
| Trial                                 | Berkeley     | 85                 | 21                         | 55.5                               | +8.3                       | 79       | 25    | 23      | 10    | 49                   | 0.82                     | -2.80                      | 0.55                 | 0      | 3     | 10           | 14           | 7            | sw.          | Miss Jessie Douthit   |              |  |  |  |            |
| Waltham                               | Oconee       | 1001               | 10                         | 54.7                               | +10.6                      | 70       | *13   | 23      | 19    | 52                   | 0.58                     | -3.56                      | 0.21                 | 0      | 4     | 3            | 26           | 2            | w.           | J. A. Westerberg      |              |  |  |  |            |
| Walterboro                            | Colleton     | 69                 | 4                          | 51.7                               |                            | 83       | 14    | 27      | *24   | 41                   | 0.94                     | -3.62                      | 0.84                 | 0      | 5     | 15           | 9            | 7            | sw.          | Weather Bureau        |              |  |  |  |            |
| Wilmington, N. C.                     | New Hanover  | 52                 | 38                         | 52.2                               | +5.3                       | 78       | 13    | 21      | 24    | 33                   | 0.92                     | -1.47                      | 0.80                 | 0      | 3     | 16           | 11           | 4            | sw.          | John W. Sogler        |              |  |  |  |            |
| Winnboro                              | Fairfield    | 545                | 0                          | 53.3                               | +10.1                      | 78       | 14    | 22      | 19    | 33                   | 1.70                     | -3.18                      | 0.21                 | 0      | 2     | 17           | 6            | 8            | sw.          | E. R. Rivers          |              |  |  |  |            |
| Winthrop College                      | York         | 600                | 8                          | 51.0                               | +7.8                       | 78       | 14    | 20      | 24    | 32                   | 0.33                     | -0.93                      | 0.75                 | 0      | 5     | 22           | 2            | 7            |              | J. G. Hutson          |              |  |  |  |            |
| Yemassee                              | Beaufort     | 23                 | 12                         | 55.0                               | +6.7                       | 77       | 14    | 27      | *27   | 33                   | 1.37                     | -0.93                      | 0.75                 | T.     | 0     | 9            | 11           | 11           | sw.          | J. R. Schorb          |              |  |  |  |            |
| Yorkville                             | York         | 680                | 19                         | 51.4                               | +8.3                       | 79       | *14   | 23      | 24    | 31                   | T.                       | +3.86                      | T.                   | 0      | 0     | 9            | 11           | 11           | sw.          |                       |              |  |  |  |            |
| MEANS—highest, lowest and dates, etc. |              |                    |                            | 53.4                               | +7.7                       | 89       | *13   | 18      | 19    | 53                   | 0.71                     | -2.88                      | 1.11                 | T.     | 4     | 15           | 9            | 7            | sw.          |                       |              |  |  |  |            |

NOTE. —All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc. ° The state of sky at 8 a.m. not used in averages.

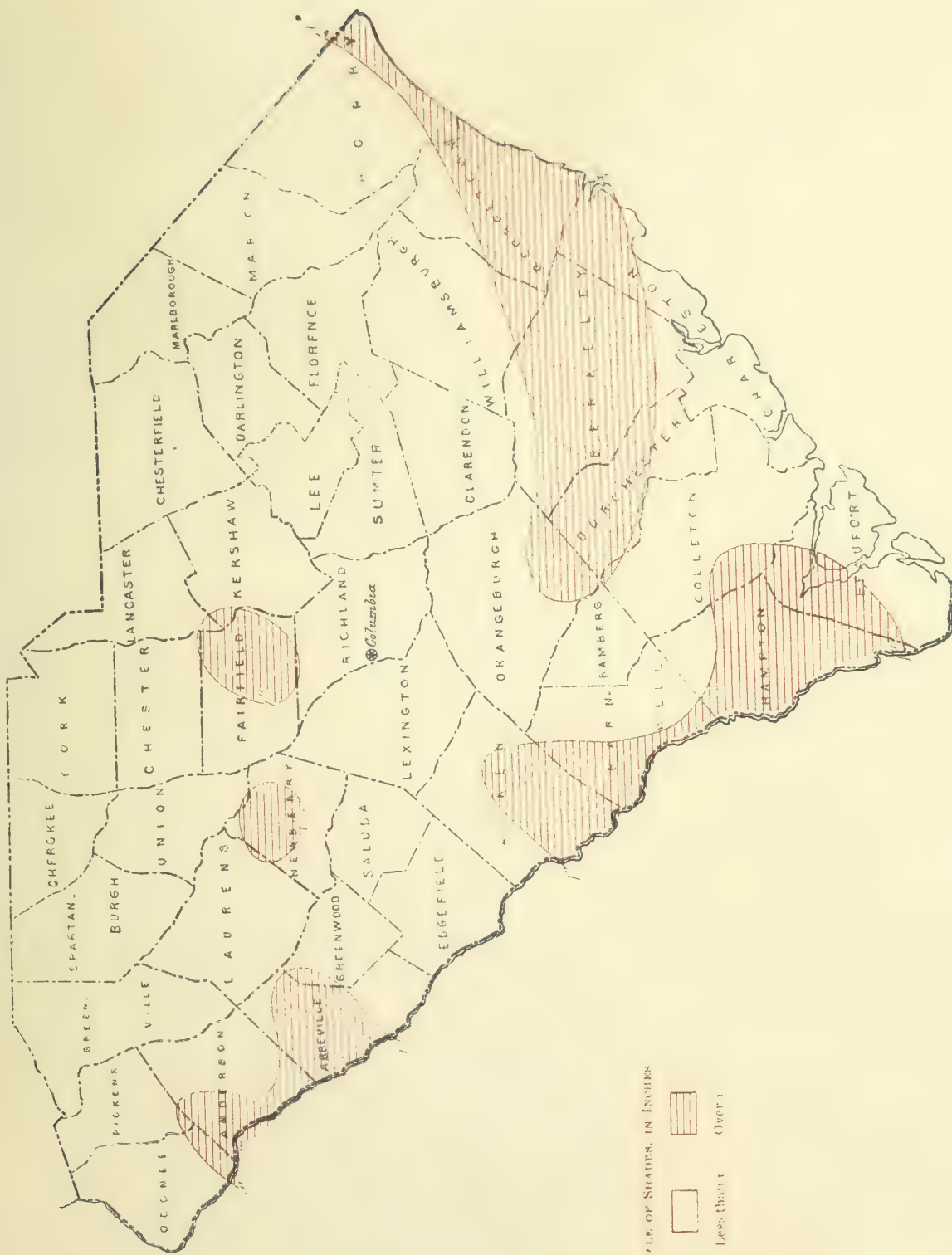


### STATIONS.

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.  
† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR JANUARY, 1907.



SCALE OF SHADES, IN INCHES



## DAILY PRECIPITATION FOR SOUTH CAROLINA. JANUARY, 1907.

| STATIONS.         | Day of Month. |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | Total. |      |      |
|-------------------|---------------|-----|-----|-----|-----|---|---|---|-----|-----|-----|----|----|----|----|----|-----|----|-----|-----|-----|-----|----|----|-----|-----|-----|------|-----|-----|------|--------|------|------|
|                   | 1             | 2   | 3   | 4   | 5   | 6 | 7 | 8 | 9   | 10  | 11  | 12 | 13 | 14 | 15 | 16 | 17  | 18 | 19  | 20  | 21  | 22  | 23 | 24 | 25  | 26  | 27  | 28   | 29  | 30  | 31   |        |      |      |
| Aiken             |               | .05 |     |     |     |   |   |   |     | .10 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        |      |      |
| Allendale         |               |     |     |     |     |   |   |   |     | .01 | .10 |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     | .65 |      |     | .25 | .30  | 1.35   |      |      |
| Anderson          |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     | .19 |     |     |    |    |     | .45 | .09 |      |     | .19 | 0.84 |        |      |      |
| Augusta, Ga.      |               | .04 |     |     |     |   |   |   |     | .15 |     |    |    |    |    |    |     |    |     | .02 |     |     |    |    |     |     | .23 |      |     |     | .20  | 0.62   |      |      |
| Barksdale         |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     | .17 | .13 | .01  |     | .13 | .24  | 0.87   |      |      |
| Batesburg         |               |     | T.  |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     | T.  |     |     |    |    |     |     | .43 |      |     |     | .13  | 0.56   |      |      |
| Beaufort          |               | .02 |     |     |     |   |   |   |     | .01 |     |    |    |    |    |    |     |    |     | .01 |     |     |    |    |     |     | .03 | .25  |     |     | .33  | 0.66   |      |      |
| Bennettsville     |               |     |     |     |     |   |   |   |     | .06 |     |    |    | T. | T. |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        |      |      |
| Blackville        |               | .05 |     |     |     |   |   |   |     | T.  | .06 |    |    |    |    |    |     |    |     |     |     | .03 |    |    |     |     | .35 |      |     | T.  | T.   | 0.41   |      |      |
| Blairs            |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     | .45 |      |     | .15 | .74  |        |      |      |
| Bowman            |               | T.  |     |     |     |   |   |   |     | .13 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     | .65 | 1.08 |     |     |      | 0.36   |      |      |
| Calhoun Falls     |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      | .07 | .34 | 1.67 |        |      |      |
| Camden (1)        |               |     |     |     |     |   |   |   |     | .06 | T.  |    |    |    |    |    |     |    |     | .07 |     |     |    |    |     |     | .43 |      |     | T.  | .11  | 0.55   |      |      |
| Camden (2)        |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        |      |      |
| Catawba           |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     | T. |     |     |     |     |    |    |     |     | T.  |      |     |     |      | 0.30   |      |      |
| Chappells         |               |     |     |     |     |   |   |   |     | .05 |     |    |    |    |    |    |     |    |     | .20 |     |     |    |    |     |     |     | .28  |     |     |      | 0.1    |      |      |
| Charleston        |               | T.  |     |     |     |   |   |   |     | .02 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        |      |      |
| Charlotte, N. C.  |               |     | T.  | T.  |     |   |   |   | .03 |     |     | T. |    |    |    | T. | .02 | T. |     |     | .04 |     |    |    |     | .20 | .57 |      |     |     | .07  | .02    | 0.77 |      |
| Cheraw (1)        |               | .01 |     |     |     |   |   |   |     |     | T.  |    |    |    |    |    |     | T. |     | .01 |     |     |    |    |     | .02 | .1  | .01  |     |     | .22  | 0.51   |      |      |
| Cheraw (2)        |               | .10 |     |     |     |   |   |   |     | T.  |     |    |    |    |    | T. |     |    |     |     |     | .01 |    |    |     |     |     | .4   |     |     | T.   | .47    |      |      |
| Clark's Hill      |               |     |     | T.  |     |   |   |   |     | T.  |     |    |    |    |    |    |     |    |     | .09 |     |     |    |    |     |     |     |      |     |     | .08  | .54    |      |      |
| Clemson College   |               |     | .10 |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     | .28 |     |     |    |    |     |     |     |      |     |     |      | 1.57   |      |      |
| Columbia          |               |     |     | T.  |     |   |   |   |     | .08 |     |    |    |    |    | T. | T.  |    |     | T.  |     |     |    |    |     | .40 | .15 |      |     | .04 | .14  | 0.81   |      |      |
| Conway            |               | .05 |     |     |     |   |   |   |     | T.  | .05 |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | 0.85   |      |      |
| Darlington        |               | .02 |     |     |     |   |   |   |     | .04 | .01 |    | T. |    |    |    | T.  | T. |     |     |     |     |    |    |     |     |     | .2   |     |     | .06  | .42    |      |      |
| Dillon            |               |     |     |     |     |   |   |   |     | .10 | T.  |    |    |    |    | T. |     |    |     |     |     |     |    |    |     |     |     |      |     |     | .10  | .07    | 0.27 |      |
| Due West          |               |     |     |     |     |   |   |   |     | T.  | .18 |    |    |    |    |    |     |    | .14 |     |     |     |    |    |     |     |     |      |     | .04 | .60  | 1.02   |      |      |
| Edisto            |               | .47 |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        |      |      |
| Edlingham         |               |     |     |     |     |   |   |   |     | .01 |     |    |    |    |    |    |     |    |     |     | .25 | T.  |    |    |     |     |     | .43  |     |     |      | .07    | 0.76 |      |
| Enoree            |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     | .25  |     |     |      | .51    |      |      |
| Florence          |               |     |     |     |     |   |   |   |     | T.  | T.  |    |    |    |    |    | .03 |    |     |     |     |     |    |    |     |     |     | .23  |     |     |      | .26    |      |      |
| Georgetown        |               |     |     |     |     |   |   |   |     | .20 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | 0.91   |      |      |
| Greenville        |               |     | T.  | .10 |     |   |   |   |     |     | T.  |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | .02    | 0.38 |      |
| Greenwood         |               |     |     |     |     |   |   |   |     | .04 |     |    |    |    |    |    |     |    |     | .10 |     |     |    |    |     |     |     | .1   |     |     | .15  | .44    |      |      |
| Heath Spring      |               |     |     |     |     |   |   |   |     | .01 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     | .25  |     |     |      | .07    | 0.70 |      |
| Kingstree (1)     |               | .30 |     |     |     |   |   |   |     | .06 | T.  |    |    |    |    |    |     |    |     |     |     |     |    |    |     | .60 | .06 |      |     |     |      | .17    | 0.80 |      |
| Kingstree (2)     |               | .38 |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     | .50  |     |     | T.   | 0.86   |      |      |
| Liberty           |               |     | .02 | .04 |     |   |   |   |     | T.  | T.  | T. |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     | .48  |     |     |      |        | 0.86 |      |
| Little Mountain   |               |     |     |     |     |   |   |   |     | .05 | T.  |    |    |    |    |    |     |    |     |     | .30 |     |    |    |     |     |     |      | .0  | T.  |      | T.     | 0.76 |      |
| Newberry          |               |     |     |     |     |   |   |   | .05 | .05 | .01 |    |    |    |    | T. |     |    |     | .10 |     |     |    |    |     | .31 | .53 |      |     | .03 | .10  | .71    |      |      |
| Pelzer            |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     | .10  | .38    | 1.00 |      |
| Pinopolis         |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     | .14 |     |     |    |    |     |     |     | .38  |     |     | .04  | .56    |      |      |
| St. George        |               | .38 |     |     |     |   |   |   |     | .07 |     |    |    |    |    |    |     |    |     |     | .07 |     |    |    |     |     |     |      |     |     |      |        |      |      |
| St. Matthews      |               |     |     |     |     |   |   |   |     | .25 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | .15    | 1.23 |      |
| St. Stephens      |               | .22 |     |     |     |   |   |   |     | .15 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        | 0.83 |      |
| Siluda            |               |     |     |     |     |   |   |   |     | .05 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        | 1.09 |      |
| Santee            |               |     |     |     |     |   |   |   |     | T.  |     |    |    |    |    |    |     |    |     | .17 |     |     |    |    |     |     |     |      | .25 |     | .09  | .25    | 0.81 |      |
| Savannah, Ga.     |               | .02 |     |     |     |   |   |   |     | T.  |     |    |    |    |    |    |     |    |     | .10 |     |     |    |    |     |     |     |      | .24 | .03 |      | T.     | .13  | 0.50 |
| Smith Mills       |               | T.  |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    | .31 | .07 |     |      |     |     | .01  | .17    | 0.58 |      |
| Society Hill      |               |     |     |     |     |   |   |   |     | .04 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        | .25  |      |
| Spartanburg       |               |     | T.  | .10 |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | .16    | 0.44 |      |
| Stateburg         |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     | .16  | T.  |     | T.   | 0.38   |      |      |
| Summerville       |               |     |     |     | .02 |   |   |   |     | .05 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        |      |      |
| Sunder            |               |     |     |     |     |   |   |   |     |     | .16 |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        | 0.95 |      |
| Trenton           |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        | 1.10 |      |
| Triad             |               |     |     |     |     |   |   |   |     | .15 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | .11    | .22  |      |
| Wallalla          |               |     | .12 | T.  |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        | .12  | 0.82 |
| Walterboro        |               | .02 | T.  |     |     |   |   |   |     | .05 | T.  |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        | .10  | 0.58 |
| Wilmington, N. C. |               |     |     |     |     |   |   |   |     | .05 |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | .01    | .23  | 0.94 |
| Windsboro         |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      |        | .01  | 0.92 |
| Winthrop College  |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    |    |     |    | .80 |     |     |     |    |    |     |     |     |      |     |     |      | .30    | 1.70 |      |
| Yemassee          |               | .33 | T.  |     |     |   |   |   |     | T.  | .07 |    |    |    |    |    |     |    |     |     |     |     |    |    |     | .21 | T.  |      |     |     | .12  |        | .33  |      |
| Yorkville         |               |     |     |     |     |   |   |   |     |     |     |    |    |    |    | T. |     |    |     |     |     |     |    |    |     |     |     |      |     |     |      | .17    | 1.7  |      |

T. indicates trace, less than .01 inch.



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30  
U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR FEBRUARY, 1907.

SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

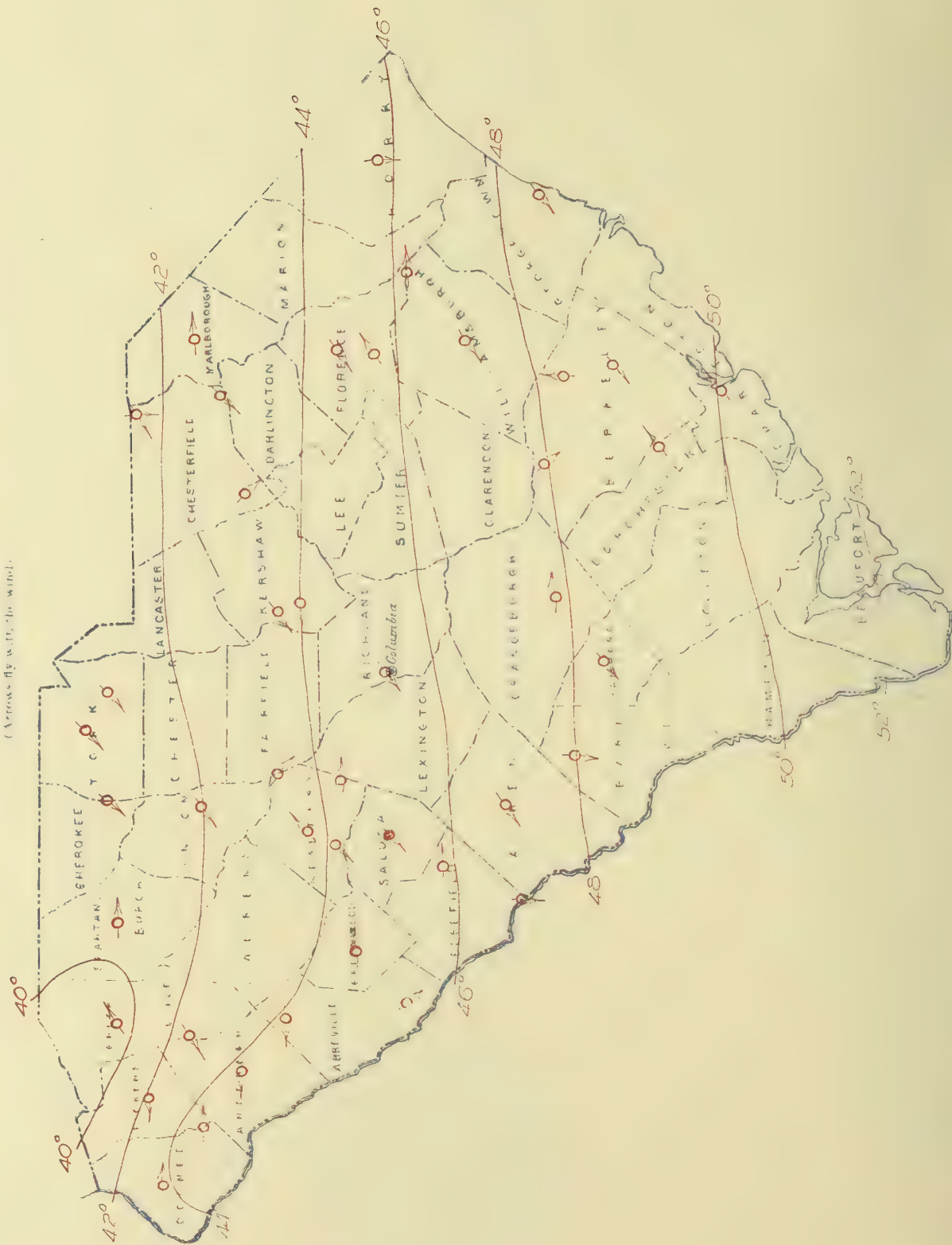


RALEIGH, N. C.  
WEATHER BUREAU OFFICE

MARCH 8, 1907.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR FEBRUARY, 1907

(Arrows fly w. for the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. DAUER, Section Director.

Vol. X.

COLUMBIA, S. C., FEBRUARY, 1907.

No. 2.

## GENERAL SUMMARY.

The monthly mean temperature was below normal, but no extremely low temperatures occurred during the month. There was less than the usual number of days with minimum temperatures of 32° or below, especially along the coast where only three days with freezing temperatures were recorded. The number of days with freezing temperatures was larger in the interior, averaging from six to eight in the central parts of the State, from sixteen to nineteen in the North Carolina border counties, and twenty-two in the mountain districts. The coldest portion of the month was from the 6th to the 9th, with another cool period from the 23d to the 25th. The maximum temperatures at the different stations were recorded on eleven separate dates, no warm wave having been noted during the month. Generally the warmest days were the 2d, 3d, 13th, 15th, 19th, 25th, and the 27th.

The average precipitation was below normal. A few stations in the northeastern, the central, and the south central parts had monthly amounts slightly above normal. The greatest deficiencies occurred along the coast. A portion of the precipitation for the month was in the form of snow and sleet. The snowfall was heaviest in the northeastern counties where from one to six inches were recorded on the 7th and 8th. The western counties had about an inch of snowfall.

The prevailing winds were generally northeasterly and the wind movement was light in comparison with the usual movement for the same month in previous years.

The number of clear, partly cloudy and cloudy days was about normal.

In comparison with the February weather of previous years, the month had no noteworthy variations from average conditions, except in the matter of minimum temperatures, lower minimum temperatures having been recorded each year since 1894.

## Temperature.

The monthly mean for February, 1907, was 45.1°, which is 0.7° below normal. The highest local monthly mean was 52.0° at Beaufort, the lowest was 39.3° at Greenville. The monthly extremes were a maximum of 84° at Batesburg on the 19th, and a minimum of 16° at Dillon on the 9th, making the State range 68°. The greatest local monthly range was 65° at Batesburg, the least was 42° at Charleston and Clemson College. The mean of the daily maximum temperatures was 54.9°, and of the daily minimum temperatures was 35.3°, making the average daily range 19.6°.

## Precipitation.

The average precipitation was 3.63 inches, which is 1.08

inch below normal. The greatest local monthly amount was 5.63 inches at Society Hill, the least was 1.61 inch at Charleston. The greatest 24 hour rainfall was 2.23 inches at Batesburg on the 5th. The average number of days with 0.01 of an inch, or more, precipitation was 8, ranging from 4 at Bowman to 12 at Anderson.

## Wind.

The prevailing direction of the wind was from the north-east at 20 stations, from the west at 9 stations, from the northwest at 6 stations, from the southwest at 5 stations, from the north and east at 4 stations each, and from the south at 1 station.

**High Winds.** High winds were noted at Bowman on the 15th, 21st; at Camden on the 11th, 14th, 21st; at Charleston on the 23d; at Cheraw, Clarks Hill, Columbia, Newberry, Saluda, Trial and Winthrop College on the 14th; at Liberty on the 14th, 21st.

## Sunshine and Cloudiness.

The average number of clear days was 10, of partly cloudy days was 8, and of cloudy days was 10.

## MISCELLANEOUS PHENOMENA.

**SOLAR HALOS.**—At Liberty on the 25th.

**LUNAR HALOS.**—At Charleston and Little Mountain on the 22d; at Columbia on the 22d, 25th.

**THUNDERSTORMS.**—Seventeen thunderstorms were noted during the month on seven dates as follows: At Beaufort on the 2d, 14th; at Blackville on the 4th, 19th; at Charleston on the 3d, 4th, 14th; at Columbia, Effingham, Little Mountain and Trenton on the 4th; at Darlington on the 5th; at Dillon on the 6th, 14th; at Georgetown and Trial on the 14th.

**DENSE FOGS.**—Dense fogs of one hour, or longer, duration occurred as follows: At Beaufort on the 1st, 4th, 13th, 14th, 16th, 28th; at Blackville and Society Hill on the 3d; at Camden on the 1st, 3d; at Charleston on the 1st, 3d, 27th; at Columbia on the 1st, 25th; at Liberty on the 2d, 27th; at Santuc on the 26th; at Trial and Winthrop College on the 2d; at Walterboro on the 4th; at Yorkville on the 2d, 6th, 19th, 27th.

**SLEET.**—Sleet was noted as follows: At Aiken and Trial on the 7th; at Allendale, Blackville, Conway, Effingham, Georgetown, Saluda, Smiths Mills, and Summerville on the 8th; at Batesburg on the 8th, 24th; at Cheraw on the 20th, 24th; at Darlington on the 25th; at Greenville on the 5th, 24th; at Heath Spring on the 4th, 24th; at Liberty on the 4th, 5th, 24th; at Newberry on the 7th, 20th; at Santuc on the 4th, 23d; at Society Hill on the 4th, 24th; at Trial on the 7th; at Winthrop College on the 4th; at Yorkville on the 4th, 5th.

## BAROMETER AND WIND TABLE FOR FEBRUARY, 1907.

| STATIONS               | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | H. gust. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Aiken, Ga. ....        | 30.13      | 30.38    | 22    | 29.90   | 20    | 4,412           | 6.6             | 29                | W.         | 21    |
| Charleston, S. C. .... | 30.12      | 30.35    | 23    | 29.87   | 20    | 7,267           | 10.9            | 35                | Ne.        | 23    |
| Charlotte, N. C. ....  | 30.13      | 30.68    | 2     | 29.87   | 20    | 5,153           | 7.7             | 28                | SW.        | 14    |
| Columbia, S. C. ....   | 30.13      | 30.35    | 23    | 29.88   | 20    | 5,201           | 8.0             | 35                | SW.        | 14    |
| Summerville, Ga. ....  | 30.13      | 30.52    | 23    | 29.62   | 20    | 5,394           | 8.0             | 35                | W.         | 14    |
| Wilmington, N. C. .... | 30.13      | 30.35    | 23    | 29.54   | 20    | 5,500           | 8.3             | 25                | SW.        | 14    |
| Averages .....         | 30.12      | 30.68    | 22    | 29.54   | 20    | 5,497           | 8.2             | 36                | SW.        | 14    |



## RIVER GAGE READINGS, FEBRUARY, 1907.

| Stations.             | Mean. | Highest. | Date. | Lowest. | Date. |
|-----------------------|-------|----------|-------|---------|-------|
| Blairs .....          | 2.0   | 5.4      | 5     | 0.8     | *16   |
| Calhoun Falls .....   | 3.8   | 7.4      | 5     | 3.1     | *21   |
| Camden .....          | 8.2   | 15.8     | 5     | 5.9     | 1     |
| Catawba .....         | 2.6   | 3.4      | 27    | 2.1     | *1    |
| Chappells .....       | 3.7   | 8.0      | 4     | 2.7     | 19    |
| Cheraw .....          | 5.5   | 12.3     | 27    | 2.6     | 20    |
| Columbia .....        | 2.3   | 7.7      | 6     | 1.1     | *1    |
| Edisto .....          | 4.1   | 5.2      | 11    | 3.2     | 3     |
| Edlingham .....       | 7.1   | 8.9      | 14    | 5.2     | *20   |
| Kings-tree .....      | 6.7   | 9.6      | 14    | 4.3     | 1     |
| Mt. Holly, N. C. .... | 2.0   | 2.4      | *5    | 1.8     | *16   |
| Pelzer .....          | 4.1   | 4.6      | *5    | 3.7     | *1    |
| Rimini .....          | 10.1  | 13.3     | *9    | 7.5     | *1    |
| St. Stephens .....    | 7.9   | 9.0      | *15   | 5.3     | *1    |
| Smith Mills .....     | 8.4   | 10.5     | *27   | 5.0     | *2    |

\* On other dates also.

## REMARKS BY OBSERVERS.

BEAUFORT.—Ice formed heavily on all trees, vegetation, and buildings on the 8th, but caused very little damage except in spots.—SIDNEY M. BENTON. BOWMAN.—The February precipitation was below normal; the temperature was below normal except on occasional days at the beginning and near the middle of the month. No fruit trees came into bloom except some varieties of plum trees.—B. O. EVANS. CAMDEN.—The heaviest snowfall of the season occurred on the 8th, when about one-half of an inch fell.—J. B. MICKLE. LIBERTY.—The weather was favorable during nearly the whole month, but the temperature was very changeable.—Jno. T. Boggs. Santee.—The month had many and sudden changes in weather, and it was generally cold, but without any severe cold wave. There was more than the usual amount of cloudiness.—E. W. JETER. SUMMERVILLE.—Rain froze as it fell during the 8th, covering everything with ice, most of which had melted by 6 p. m. Trees were greatly damaged by the heavy weight of ice on them.—Miss E. H. Gadsden.

## ERRATA.

The following corrections should be made in the November, 1906, Monthly Report: On page 85, the mean monthly temperature at Dillon, 54.1, should be 53.0; at Aiken, 53.8 should be 53.6; at Clemson College, 51.0 should be 51.4; at Trial, 55.2 should be 55.1; at Walhalla, 53.3 should be 52.9. Same page: at Little Mountain the date of minimum temperature should be 14th and other dates; at Newberry, date of maximum temperature should be 19th and other dates; at Walhalla, date of minimum temperature should be 14th and other dates. On page 86: At Aiken, the minimum temperature on the 30th, 48, should be 38, and the mean minimum temperature, 43.4, should be 43.1; at Camden, the maximum temperature on the 1st, 55, should be 59; on the 12th, 65 should be 66; and the mean of maximum temperatures, 65.9, should be 66.1; at Clemson College, the maximum tempera-

ture on the 4th, 69, should be 70; on the 12th, 51 should be 60; on the 29th, 55 should be 60, and the mean maximum temperature, 63.0, should be 63.8; at Conway, the minimum temperature on the 13th, 39, should be 37; at Dillon, the mean maximum temperature, 67.2, should be 67.1; at Liberty, the maximum temperature on the 12th, 61, should be 62; at Trial, the minimum temperature on the 27th, 42, should be 36, and the mean minimum temperature, 41.8, should be 41.6; at Winnsboro, the maximum temperature on the 6th, 54, should be 55; at Walhalla, the mean maximum temperature 66.4, should be 66.1.

In the December, 1906, Monthly Report, the mean maximum temperature at Georgetown, page 94, 59.3, should be 59.2.

## TEMPERATURE DATA FOR COLUMBIA, S. C.

## Monthly and Annual Mean Temperatures.

| Year | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| 1887 |      |      |      |      |      | 78   | 82   | 78   | 72    | 61   | 52   | 45   |       |
| 1888 | 47   | 50   | 52   | 66   | 71   | 79   | 80   | 80   | 72    | 61   | 54   | 46   | 63.2  |
| 1889 | 45   | 44   | 54   | 65   | 73   | 77   | 81   | 77   | 73    | 63   | 56   | 58   | 63.7  |
| 1890 | 54   | 58   | 54   | 68   | 72   | 81   | 78   | 77   | 73    | 62   | 58   | 46   | 64.8  |
| 1891 | 45   | 54   | 48   | 61   | 70   | 79   | 77   | 79   | 74    | 60   | 52   | 50   | 62.4  |
| 1892 | 43   | 50   | 52   | 63   | 71   | 79   | 81   | 80   | 75    | 66   | 53   | 48   | 63.4  |
| 1893 | 38   | 51   | 54   | 69   | 71   | 78   | 83   | 78   | 76    | 65   | 54   | 50   | 63.8  |
| 1894 | 49   | 51   | 60   | 64   | 72   | 78   | 79   | 79   | 75    | 64   | 53   | 49   | 64.5  |
| 1895 | 54   | 37   | 54   | 62   | 69   | 79   | 80   | 80   | 78    | 61   | 54   | 46   | 62.1  |
| 1896 | 44   | 48   | 52   | 68   | 78   | 79   | 82   | 81   | 76    | 63   | 60   | 44   | 64.5  |
| 1897 | 42   | 50   | 56   | 63   | 70   | 80   | 81   | 78   | 74    | 66   | 56   | 47   | 63.7  |
| 1898 | 50   | 45   | 60   | 58   | 75   | 80   | 80   | 80   | 76    | 64   | 51   | 47   | 63.8  |
| 1899 | 45   | 43   | 56   | 61   | 76   | 81   | 82   | 82   | 74    | 64   | 55   | 45   | 63.6  |
| 1900 | 45   | 44   | 52   | 61   | 72   | 78   | 82   | 85   | 79    | 68   | 56   | 46   | 64.3  |
| 1901 | 46   | 43   | 54   | 56   | 72   | 78   | 82   | 79   | 74    | 63   | 49   | 45   | 61.7  |
| 1902 | 43   | 41   | 55   | 61   | 74   | 78   | 81   | 78   | 72    | 65   | 60   | 47   | 63.1  |
| 1903 | 44   | 56   | 61   | 61   | 71   | 74   | 81   | 80   | 73    | 64   | 52   | 42   | 62.7  |
| 1904 | 42   | 44   | 57   | 59   | 71   | 77   | 79   | 78   | 75    | 63   | 54   | 46   | 62.1  |
| 1905 | 42   | 39   | 59   | 64   | 74   | 80   | 81   | 78   | 76    | 64   | 55   | 45   | 62.9  |
| 1906 | 48   | 47   | 52   | 65   | 70   | 78   | 78   | 81   | 78    | 61   | 55   | 49   | 63.5  |
| M'ns | 45.1 | 46.8 | 54.8 | 62.7 | 72.3 | 78.6 | 80.6 | 79.5 | 74.7  | 63.4 | 54.4 | 47.0 | 63.4  |

## Temperature Extremes.

| Month.   | Maximum. | Year. | Day. | Minimum. | Year. | Day. | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. |
|----------|----------|-------|------|----------|-------|------|-----------------------|-------|----------------------|-------|
| January  | 78       | 1890  | 11   | 10       | 1895  | 13   | 54.4                  | 1890  | 38.0                 | 1893  |
| February | 82       | 1890  | 25   | -2       | 1899  | 14   | 57.6                  | 1890  | 41.0                 | 1902  |
| March    | 90       | 1894  | 22   | 20       | 1899  | 7    | 61.1                  | 1903  | 47.6                 | 1891  |
| April    | 96       | 1896  | 18   | 28       | 1891  | 6    | 69.0                  | 1893  | 56.2                 | 1901  |
| May      | 101      | 1898  | 30   | 40       | 1906  | 10   | 77.6                  | 1896  | 69.2                 | 1895  |
| June     | 103      | 1899  | 10   | 47       | 1889  | 1    | 81.4                  | 1890  | 74.2                 | 1903  |
| July     | 105      | 1899  | 15   | 54       | 1892  | 8    | 83.4                  | 1903  | 77.2                 | 1891  |
| August   | 106      | 1900  | 20   | 56       | 1891  | 31   | 85.1                  | 1900  | 76.7                 | 1889  |
| Sept.    | 104      | 1896  | 18   | 42       | 1888  | 30   | 97.0                  | 1900  | 71.6                 | 1888  |
| October  | 92       | 1895  | 8    | 32       | 1891  | 29   | 68.3                  | 1900  | 59.7                 | 1891  |
| Nov.     | 85       | 1900  | 23   | 21       | 1892  | 21   | 59.8                  | 1896  | 51.6                 | 1903  |
| Dec.     | 77       | 1899  | 28   | 9        | 1894  | 29   | 58.0                  | 1889  | 42.4                 | 1903  |

## COMPARATIVE STATE DATA FOR FEBRUARY—14 YEARS.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |                  |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |        |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|------------------|----------------|--------------------------|----------------------------------|--------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                  | Least Monthly. |                          |                                  |        |
|           |              |                  |                  |          |          |                | Amount.           | Place.           | Amount.        |                          |                                  | Place. |
| 1894..... | 48.9         | 57.7             | 40.1             | 76       | 16       | 4.35           | 6.61              | Trenton.         | 2.88           | Cheraw.                  | 10                               | sw.    |
| 1895..... | 37.4         | 45.5             | 29.2             | 78       | —6       | 3.07           | 4.47              | Charleston.      | 1.20           | Shaw's Fork.             | 7                                | nw.    |
| 1896..... | 48.2         | 59.8             | 37.7             | 81       | 5        | 6.13           | 8.70              | Pinopolis.       | 3.55           | Port Royal.              | 8                                | sw.    |
| 1897..... | 50.0         | 59.3             | 40.7             | 83       | 15       | 7.80           | 10.50             | Spartanburg.     | 6.08           | Spartanburg.             | 11                               | sw.    |
| 1898..... | 44.5         | 56.6             | 32.4             | 78       | 10       | 0.86           | 2.00              | Georgetown.      | 0.34           | St. George.              | 3                                | w.     |
| 1899..... | 43.0         | 52.5             | 33.4             | 80       | —11      | 6.98           | 12.30             | Trenton.         | 3.23           | Allendale.               | 12                               | w.     |
| 1900..... | 44.0         | 53.9             | 34.0             | 78       | 1        | 5.77           | 10.61             | Holland.         | 1.86           | Yemassee.                | 10                               | w.     |
| 1901..... | 43.2         | 53.7             | 32.8             | 78       | 7        | 3.08           | 5.40              | Georgetown.      | 1.28           | Winnsboro.               | 6                                | nw.    |
| 1902..... | 40.6         | 50.1             | 31.1             | 77       | 11       | 5.39           | 10.51             | Barksdale.       | 2.38           | Yemassee.                | 8                                | nw.    |
| 1903..... | 49.0         | 59.5             | 38.5             | 81       | 11       | 7.03           | 12.48             | Clemson College. | 2.07           | Charleston.              | 10                               | sw.    |
| 1904..... | 45.2         | 54.7             | 35.6             | 86       | 15       | 3.59           | 5.35              | Walterboro.      | 1.95           | Allendale.               | 9                                | ne.    |
| 1905..... | 38.9         | 48.0             | 29.8             | 72       | 0        | 5.21           | 8.20              | Blackville.      | 2.87           | Barksdale.               | 9                                | ne.    |
| 1906..... | 46.0         | 57.2             | 34.8             | 76       | 12       | 2.58           | 7.26              | Georgetown.      | 0.46           | Greenville.              | 6                                | ne.    |
| 1907..... | 45.1         | 54.9             | 35.3             | 84       | 16       | 3.63           | 5.69              | Society Hill.    | 1.61           | Charleston.              | 8                                | ne.    |



## CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY 1907.

|                                       |              | Temperature, in degrees Fahrenheit |                         |      |                       |         |       |        |       |       |      | Precipitation, in inches |      |      |      |     |      |      |      |                        |      |      |      |              |
|---------------------------------------|--------------|------------------------------------|-------------------------|------|-----------------------|---------|-------|--------|-------|-------|------|--------------------------|------|------|------|-----|------|------|------|------------------------|------|------|------|--------------|
| STATIONS                              | Counties     | Elevation, feet                    | Length of record, years | Mean | Departure from normal | Highest | Dates | Lowest | Dates | Grass | Dec. | Jan.                     | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept.                  | Oct. | Nov. | Dec. | Observations |
| Aiken                                 | Aiken        | 508                                | 23                      | 47.0 | -1.9                  | 70      | 3     | 22     | 7     | 41    | 4.20 | +0.09                    | 1.66 | T.   | 7    | 21  | 3    | 4    | ne.  | C. F. McClellan, M. D. |      |      |      |              |
| Allendale                             | Barnwell     | 186                                | 19                      |      |                       |         |       |        |       |       | 3.95 | +0.46                    | 1.84 |      | 5    |     |      |      | e.   | A. R. Hiers.           |      |      |      |              |
| Anderson                              | Anderson     | 764                                | 6                       | 44.6 | +1.7                  | 67      | *10   | 18     | 8     | 46    | 3.8  | +0.11                    | 1.88 | 0.8  | 12   | 13  | 3    | 11   | e.   | H. B. Russell.         |      |      |      |              |
| Augusta, Ga.                          | Richmond     | 134                                | 36                      | 47.4 | -3.0                  | 71      | 2     | 26     | 7     | 45    | 3.69 | -0.27                    | 1.66 | 0    | 7    | 12  | 6    | 10   | nw.  | Weather Bureau.        |      |      |      |              |
| Barksdale                             | Laurens      | 680                                | 6                       |      |                       |         |       |        |       |       |      |                          |      |      |      |     |      |      |      | J. T. Gantt.           |      |      |      |              |
| Batesburg                             | Lexington    | 650                                | 19                      | 45.6 | +0.3                  | 81      | 19    | 19     | 7     | 11    | 5.17 | -0.92                    | 2.23 | T.   | 8    | 14  | 6    | 14   | ne.  | J. J. Hite.            |      |      |      |              |
| Beaufort                              | Beaufort     | 20                                 | 21                      | 52.0 | +0.8                  | 78      | 3     | 27     | 9     | 29    | 2.17 | -1.35                    | 1.84 | 0    | 7    | 12  | 6    | 10   | ne.  | S. M. Barton.          |      |      |      |              |
| Bennettsville                         | Marlboro     | 151                                | 6                       | 41.1 |                       | 71      | 2     | 18     | 9     | 48    | 4.14 | -0.58                    | 1.28 | 1.2  | 9    | 12  | 8    | 8    | w.   | C. S. McCard.          |      |      |      |              |
| Blackville                            | Barnwell     | 200                                | 19                      | 49.1 | +3.2                  | 74      | *2    | 25     | 7     | 48    | 4.41 | -0.58                    | 1.17 | 0    | 16   | 12  | 2    | 14   | ne.  | C. D. C. Lister.       |      |      |      |              |
| Blair                                 | Fairfield    | 293                                | 2                       |      |                       |         |       |        |       |       | 4.22 |                          | 1.58 | 0    | 6    | 1   | 1    | 11   | nw.  | T. S. McMeekin.        |      |      |      |              |
| Bowman                                | Orangeburg   | 160                                | 6                       | 47.4 |                       | 72      | 3     | 24     | 7     | 48    | 2.21 |                          | 1.28 | 0    | 4    | 11  | 7    | 10   | w.   | B. O. Evans.           |      |      |      |              |
| Calhoun Falls                         | Abbeville    | 508                                | 14                      |      |                       |         |       |        |       |       | 3.86 | -0.58                    | 0.92 | 0    | 8    | 16  | 6    | 12   | nw.  | P. J. Pfeiffer.        |      |      |      |              |
| Camden (1)                            | Kershaw      |                                    | 2                       | 43.9 |                       | 68      | 14    | 18     | 7     | 36    | 4.27 |                          | 1.44 | 0.5  | 8    | 14  | 8    | 9    | ne.  | J. B. Mickle.          |      |      |      |              |
| Camden (2)                            | Kershaw      | 222                                | 41                      |      |                       |         |       |        |       |       | 3.04 | 0.85                     | 0.94 | 0    | 5    | 11  | 1    | 13   | e.   | W. C. Brown.           |      |      |      |              |
| Catawba                               | York         |                                    | 2                       |      |                       |         |       |        |       |       | 2.84 |                          | 1.10 | 0    | 5    | 13  | 2    | 13   | ne.  | James Y. Brice.        |      |      |      |              |
| Chappells                             | Newberry     | 402                                | 2                       |      |                       |         |       |        |       |       | 1.38 |                          | 1.54 | 0    | 9    | 15  | 3    |      | ne.  | J. A. Meldan.          |      |      |      |              |
| Charleston                            | Charleston   | 48                                 | 38                      | 50.0 | 2.8                   | 60      | 2     | 2      | 7     | 25    | 1.01 | -1.71                    | 0.86 | 0    | 11   | 11  | 4    | 12   | sw.  | Weather Bureau.        |      |      |      |              |
| Charlotte, N. C.                      | Mecklenburg  | 868                                | 29                      | 41.2 | -3.8                  | 64      | 27    | 18     | 7     | 32    | 3.24 | -2.27                    | 1.64 | 2.2  | 10   | 10  | 6    | 12   | ne.  | Weather Bureau.        |      |      |      |              |
| Cheraw (1)                            | Chesterfield | 111                                | 19                      | 41.4 | -1.9                  | 60      | 42    | 19     | 7     | 9     | 4.66 | +0.34                    | 1.59 | 2.0  | 8    | 11  | 1    | 12   | n.   | W. R. Godfrey.         |      |      |      |              |
| Cheraw (2)                            |              | 141                                | 14                      |      |                       |         |       |        |       |       | 4.72 | -0.05                    | 1.65 | 2.5  | 11   | 12  | 4    | 12   | ne.  | John H. Lowe.          |      |      |      |              |
| Clarks Hill                           | Edgefield    | 500                                | 5                       | 46.0 |                       | 74      | 3     | 22     | 7     | 35    | 4.90 |                          | 1.81 | T.   | 6    | 10  | 6    | 18   |      | Wm. S. Middleton.      |      |      |      |              |
| Clemson College                       | Oconee       | 850                                | 16                      | 43.8 | +1.7                  | 64      | 2     | 22     | 8     | 35    | 3.62 | -1.83                    | 1.10 | 0    | 8    | 14  | 4    | 10   | w.   | John S. Hook.          |      |      |      |              |
| Columbia                              | Richland     | 351                                | 20                      | 45.7 | -2.4                  | 68      | 10    | 20     | 7     | 33    | 3.65 | -0.53                    | 1.25 | 0.6  | 10   | 8   | 10   | 10   | ne.  | Central Office.        |      |      |      |              |
| Conway                                | Horry        | 25                                 | 15                      | 45.4 |                       | 70      | 3     | 21     | 7     | 10    | 3.10 | -1.48                    | 1.40 | 0    | 9    | 15  | 1    | 12   | n.   | P. C. Quattlebaum.     |      |      |      |              |
| Darlington                            | Darlington   | 175                                | 12                      | 43.1 |                       | 71      | 19    | 10     | 9     | 36    | 4.24 | -0.72                    | 1.70 | 1.6  | 10   | 19  | 3    | 14   |      | D. C. McCall.          |      |      |      |              |
| Dillon                                | Marion       | 100                                | 3                       | 44.0 |                       | 72      | 2     | 16     | 9     | 49    | 4.62 |                          | 1.03 | 3.6  | 11   |     |      |      | e.   | A. E. Rowell.          |      |      |      |              |
| Due West                              | Abbeville    | 730                                | 6                       | 40.5 |                       | 65      | *10   | 22     | 7     | 34    | 4.09 |                          | 1.54 | 0    | 8    | 9   | 1    | 15   | e.   | Rev. O. Y. Bonner.     |      |      |      |              |
| Edisto                                | Bamberg      | 127                                | 14                      |      |                       |         |       |        |       |       | 4.64 | -0.07                    | 1.00 | 0    | 7    | 12  | 1    | 15   | ne.  | Mrs. M. Thompson.      |      |      |      |              |
| Edinham                               | Florence     | 105                                | 15                      |      |                       |         |       |        |       |       | 4.50 | 0.12                     | 0.90 | 1.0  | 8    | 15  | 6    | 10   | sw.  | H. B. McCall.          |      |      |      |              |
| Enoree                                | Spartanburg  | 987                                | 2                       |      |                       |         |       |        |       |       |      |                          |      |      |      |     |      |      | ne.  | P. R. Thompson.        |      |      |      |              |
| Florence                              | Florence     | 136                                | 19                      | 44.2 | 2.8                   | 71      | *2    | 21     | 7     | 9     | 3.43 | -1.70                    | 1.35 | 0    | 7    | 13  | 1    | 14   | ne.  | H. K. Gilbert.         |      |      |      |              |
| Georgetown                            | Georgetown   | 12                                 | 14                      | 48.6 | +0.7                  | 73      | 2     | 23     | 7     | 31    | 1.90 | -1.46                    | 0.60 | 0    | 5    | 13  | 14   | 1    | ne.  | Reid Whitford.         |      |      |      |              |
| Greenville                            | Greenville   | 680                                | 15                      | 39.3 | -0.9                  | 65      | *2    | 17     | 8     | 14    | 2.23 | -2.65                    | 0.73 | 0.5  | 10   | 13  | 6    | 15   | sw.  | Mrs. S. A. Crittenden. |      |      |      |              |
| Greenwood                             | Greenwood    | 671                                | 19                      | 42.6 | 0                     | 66      | 18    | 22     | 8     | 34    | 3.72 | -1.17                    | 1.85 | 0    | 8    | 14  | 6    | 14   | w.   | M. M. Calhoun.         |      |      |      |              |
| Heath Spring                          | Lancaster    | 568                                | 6                       | 42.9 |                       | 66      | 15    | 19     | 7     | 31    | 3.86 |                          | 1.51 | 0    | 8    | 11  | 10   | 7    | nw.  | J. A. Weaver.          |      |      |      |              |
| Kingstree (1)                         | Williamsburg | 54                                 | 19                      | 50.6 | +4.0                  | 71      | 15    | 25     | 7     | 33    | 2.12 | -1.57                    | 0.60 | 0    | 9    | 15  | 4    | 9    | ne.  | J. A. Scott.           |      |      |      |              |
| Kingstree (2)                         |              | 54                                 | 13                      |      |                       |         |       |        |       |       | 2.59 | -1.53                    | 0.90 | 0    | 8    | 12  | 4    | 12   | nw.  | A. O. Matthews.        |      |      |      |              |
| Liberty                               | Pickens      | 900                                | 13                      | 43.8 | +2.6                  | 66      | *25   | 20     | 8     | 39    | 3.32 | -2.11                    | 1.25 | 1.0  | 6    | 14  | 5    | 6    | e.   | John T. Boggs.         |      |      |      |              |
| Little Mountain                       | Newberry     | 630                                | 14                      | 45.0 | -0.3                  | 72      | 14    | 21     | 7     | 34    | 4.05 | -1.05                    | 1.25 | 0    | 8    | 8   | 11   | 9    | w.   | John M. Sease, M. D.   |      |      |      |              |
| Newberry                              | Newberry     | 502                                | 3                       | 44.0 | +0.6                  | 68      | 14    | 22     | 7     | 39    | 4.24 | -1.48                    | 1.18 | 0    | 9    | 9   | 2    | 17   | sw.  | W. G. Peterson.        |      |      |      |              |
| Pelzer                                | Anderson     | 873                                | 2                       |      |                       |         |       |        |       |       | 3.06 | -0.88                    | 0.88 | 1.5  | 9    | 10  | 4    | 14   | ne.  | John M. Ward.          |      |      |      |              |
| Pinopolis                             | Berkeley     | 54                                 | 14                      | 49.6 | +1.9                  | 70      | *2    | 20     | 7     |       | 3.92 | -0.78                    | 1.50 | 0    | 6    | 14  | 0    | 13   | ne.  | E. P. Ravenel.         |      |      |      |              |
| St. George                            | Dorchester   | 100                                | 19                      | 50.5 | +3.6                  | 67      | *2    | 25     | 7     | 37    | 3.06 | +0.57                    | 0.94 | 0    | 6    | 14  | 0    | 13   | ne.  | G. T. Lewis.           |      |      |      |              |
| St. Matthews                          | Orangeburg   | 269                                | 19                      | 46.3 | -0.1                  | 70      | *2    | 23     | 7     | 34    | 5.33 | +0.57                    | 1.55 | T.   | 9    | 15  | 6    | 13   | ne.  | J. S. Wainmaker.       |      |      |      |              |
| St. Stephen                           | Berkeley     | 73                                 | 15                      |      |                       |         |       |        |       |       | 2.64 | -1.72                    | 1.40 | 0    | 8    | 11  | 2    | 15   | s.   | C. T. Shuler.          |      |      |      |              |
| Sandh                                 | Sandh        | 546                                | 6                       | 45.4 |                       | 69      | 13    | 21     | 7     | 35    | 4.76 |                          | 1.51 | 0    | 8    | 12  | 2    | 14   | ne.  | Alvin Etheridge.       |      |      |      |              |
| Spartan                               | Union        | 512                                | 13                      | 42.8 | +0.6                  | 65      | 15    | 20     | 8     | 29    | 1.4  | -0.97                    | 1.54 | 1.2  | 8    | 9   | 5    | 13   | ne.  | E. W. Jeter.           |      |      |      |              |
| Savannah, Ga.                         | Chatham      | 71                                 | 38                      | 53.1 | 1.2                   | 76      | 2     | 29     | 9     | 29    | 1.4  | -1.34                    | 1.12 | 0    | 7    | 12  | 4    | 12   | n.   | Weather Bureau.        |      |      |      |              |
| Sixth Mills                           | Williamsburg | 62                                 | 12                      |      |                       |         |       |        |       |       | 3.93 | 0.56                     | 1.10 | 0    | 8    | 12  | 0    | 16   | w.   | H. van Keuren.         |      |      |      |              |
| Society Hill                          | Darlington   | 192                                | 16                      | 42.8 | -2.4                  | 67      | *2    | 20     | 8     | 36    | 5.69 | 0.49                     | 1.75 | 6.2  | 9    | 13  | 6    | 9    | ne.  | J. J. Lucas.           |      |      |      |              |
| Spartanburg                           | Spartanburg  | 875                                | 16                      | 41.6 | -2.6                  | 70      | 13    | 26     | 8     | 45    | 2.89 | -2.55                    | 1.10 | 0.5  | 8    | 7   | 1    | 20   | w.   | P. P. Robinson.        |      |      |      |              |
| Shabeno                               | Spartanburg  | 500                                | 30                      | 46.6 | -2.6                  | 71      | *14   | 22     | 7     | 32    | 5.93 | +1.90                    | 2.20 | 1.5  | 10   | 4   | 13   | 11   | ne.  | W. W. Anderson, M. D.  |      |      |      |              |
| Shamerville                           | Sumter       | 75                                 | 10                      | 41.6 | +1.1                  | 73      | 2     | 25     | 8     | 35    | 2.11 | 2.26                     | 1.18 | 0    | 10   | 4   | 13   | 11   | sw.  | Miss E. H. Gadsden.    |      |      |      |              |
| Sumter                                | Dorchester   | 160                                | 0                       |      |                       |         |       |        |       |       |      |                          |      |      |      |     |      |      |      | T. M. Bradley.         |      |      |      |              |
| Trenton                               | Sumter       | 160                                | 0                       |      |                       |         |       |        |       |       |      |                          |      |      |      |     |      |      | w.   | C. A. Long.            |      |      |      |              |
| Triant                                | Edgefield    | 620                                | 14                      | 45.5 | -1.7                  | 67      | 2     | 22     | 7     | 28    | 4.26 | -2.43                    | 1.48 | 0    | 11   | 9   | 11   | 8    | w.   | C. A. Long.            |      |      |      |              |
| Triant                                | Berkeley     | 85                                 | 21                      | 47.1 | -1.6                  | 75      | 3     | 25     | 8     | 38    | 3.14 | -0.99                    | 0.82 | 0    | 10   | 9   | 6    | 13   | nw.  | Elsell Gaillard.       |      |      |      |              |
| Walhalla                              | Oconee       | 1001                               | 16                      | 45.2 | +0.4                  | 70      | *10   | 23     | 7     | 39    | 3.89 | -0.43                    | 1.43 | 0    | 6    | 1   | 20   | 7    | w.   | Miss Jessie Douthit.   |      |      |      |              |
| Walterboro                            | Colleton     | 69                                 | 4                       | 50.8 |                       | 72      | 2     | 25     | 9     | 36    | 2.55 | -0.97                    | 0    | 9    | 10   | 9   | 9    |      | ne.  | J. A. Westerberg.      |      |      |      |              |
| Wilmington, N. C.                     | New Hanover  | 52                                 | 38                      | 44.8 | -5.0                  | 73      | 2     | 21     | 7     | 28    | 2.14 | -0.59                    | 0.69 | 0    | 9    | 10  | 10   | 8    | ne.  | Weather Bureau.        |      |      |      |              |
| Windsboro                             | Fairfield    | 545                                | 18                      | 44.7 | -1.9                  | 68      | 13    | 21     | 8     | 30    | 4.95 | +0.04                    | 1.00 | 0    | 7    | 11  | 11   | 6    | ne.  | John W. Seigler.       |      |      |      |              |
| Winthrop College                      | York         | 600                                | 8                       | 41.4 | -4.4                  | 62      | *27   | 18     | 7     | 31    | 4.26 | 0.13                     | 1.17 | T.   | 9    | 13  | 5    | 7    | ne.  | E. R. Rivers.          |      |      |      |              |
| Yemassee                              | Beaufort     | 23                                 | 12                      | 49.0 | -0.3                  | 69      | *25   | 21     | 10    | 41    | 2.10 | -2.36                    | 0.88 | 0    | 8    | 13  | 0    | 15   | ne.  | J. G. Hutson.          |      |      |      |              |
| Yorkville                             | York         | 680                                | 19                      | 43.6 | -1.4                  | 68      | 13    | 20     | 7     | 36    | 3.52 | -1.27                    | 0.88 | 1.0  | 9    | 8   | 7    | 13   | ne.  | J. R. Schorb.          |      |      |      |              |
| MEANS—highest, lowest and dates, etc. |              |                                    |                         | 45.1 | 0.7                   | 84      | 10    | 16     | 9     | 45    | 3.63 | -1.08                    | 2.23 | 0.5  | 8    | 10  | 8    | 10   | ne.  |                        |      |      |      |              |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. \* Maximum thermometer not standard. † Minimum thermometer not standard. ‡ Exposed not standard. \* On other dates also. a indicates 1 day missing, b 2 days, etc. The state of sky at 8 a.m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING FEBRUARY, 1907.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.



4

2

0 or fewer shades in inches

1 shade in inches

2 shades in inches

3 or more shades in inches



9

[illegible]

2104

2010

## DAILY PRECIPITATION FOR SOUTH CAROLINA, FEBRUARY, 1907.

| STATIONS.         | Day of Month. |      |      |      |      |      |      |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     |      |     |     |     |      |     |    |    |    | Total. |      |
|-------------------|---------------|------|------|------|------|------|------|------|-----|----|----|----|----|-----|-----|----|----|----|------|------|-----|-----|------|-----|-----|-----|------|-----|----|----|----|--------|------|
|                   | 1             | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9   | 10 | 11 | 12 | 13 | 14  | 15  | 16 | 17 | 18 | 19   | 20   | 21  | 22  | 23   | 24  | 25  | 26  | 27   | 28  | 29 | 30 | 31 |        |      |
| Aiken             | .20           | .35  | 1.60 |      |      |      | T.   |      |     |    |    |    |    |     |     |    |    |    |      | .90  |     |     |      | .30 |     | .15 |      | .70 |    |    |    | 4.20   |      |
| Allendale         | .49           | .18  |      | 1.83 |      |      |      | .55  |     |    |    |    |    |     |     |    |    |    |      | .90  |     |     |      | .30 |     | .15 |      | .70 |    |    |    | 3.95   |      |
| Anderson          | .34           | .03  | .07  | .98  | .04  |      |      | .07  |     |    |    |    |    |     |     |    |    |    |      | .57  |     |     |      | .19 | .02 | .41 | .06  | .57 |    |    |    | 3.38   |      |
| Angusta, Ga.      | .71           | T.   |      | 1.66 |      |      | T.   |      |     |    |    |    |    |     |     |    |    |    |      | .36  | T.  |     |      | .24 | .28 | .29 | .15  |     |    |    |    | 3.69   |      |
| Barksdale         |               |      |      |      |      |      |      |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     |      |     |     |     |      |     |    |    |    |        |      |
| Batesburg         | .24           | .42  |      | .37  | 2.23 |      | T.   |      |     |    |    |    |    |     |     |    |    |    |      | .93  | .32 |     |      | .33 |     | .47 |      |     |    |    |    | 5.31   |      |
| Beaufort          | .02           |      |      | .36  |      |      | .05  | 1.48 |     |    |    |    |    |     | .01 |    |    |    |      | .20  |     |     | T.   | .05 |     |     |      | T.  |    |    |    | 2.17   |      |
| Bennettsville     | .25           |      | .02  | 1.25 |      |      |      | .12  |     |    |    |    |    |     |     |    |    |    |      | 1.02 |     |     | .66  | .30 | .22 | .59 |      |     |    |    |    | 4.43   |      |
| Blackville        | .60           | .14  |      | .16  | 1.47 |      |      | .20  |     |    |    |    |    |     |     |    |    |    |      | .92  | .10 |     |      | .17 | .12 | .53 |      |     |    |    |    | 4.41   |      |
| Blairs            | .24           | .40  |      |      | 1.58 |      |      |      |     |    |    |    |    |     |     |    |    |    |      | 1.00 |     |     |      | .60 |     | .40 |      |     |    |    |    | 4.22   |      |
| Bowman            | .41           | .04  |      |      |      |      |      | 1.28 |     |    |    |    |    |     |     |    |    |    |      | .48  |     |     | T.   |     | T.  |     |      |     |    |    |    | 2.21   |      |
| Calhoun Falls     | .61           | .57  | .18  | .41  | .92  |      |      |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     |      | .22 | .44 | .51 |      |     |    |    |    | 3.86   |      |
| Camden (1)        | .43           |      |      | 1.41 | .07  |      |      | .14  |     |    |    |    |    |     |     |    |    |    |      | .94  |     |     | .70  |     | .28 | .30 |      |     |    |    |    | 4.27   |      |
| Camden (2)        |               | .28  | .50  |      | .60  |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .94  |     |     |      | .50 |     | .50 |      |     |    |    |    | 3.04   |      |
| Catawba           | .14           |      |      |      | 1.10 |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .94  |     |     |      |     |     |     |      |     |    |    |    | 4.27   |      |
| Chappells         | .30           | .56  | .04  | .04  | 1.54 |      |      |      |     |    |    |    |    |     |     |    |    |    |      | 1.08 |     |     | T.   |     |     | .24 |      |     |    |    |    | 2.84   |      |
| Charleston        | T.            | T.   | .09  | .41  |      |      | .36  | .50  |     |    |    |    |    |     |     |    |    |    |      | 1.04 |     |     | T.   | .40 | .10 | .36 |      |     |    |    |    | 4.38   |      |
| Charlotte, N. C.  | .17           | .02  | .05  | .95  |      |      | T.   |      |     |    |    |    |    | .01 |     |    |    |    |      | .08  |     |     | .05  | .01 | .02 | .01 | .07  |     |    |    |    | 1.61   |      |
| Cheraw (1)        | .03           | .26  |      | 1.59 |      |      | .20  |      |     |    |    |    |    |     |     |    |    |    |      | 1.06 | .25 |     | T.   | .93 |     | .34 |      |     |    |    |    | 3.24   |      |
| Cheraw (2)        | .04           | .24  |      | .04  | 1.05 |      |      | .12  | .01 |    |    |    |    |     |     |    |    |    |      | .66  | .63 |     | T.   | .93 |     | .34 |      |     |    |    |    | 4.66   |      |
| Clark's Hill      | .62           |      | 1.81 | T.   |      |      | T.   |      |     |    |    |    |    |     |     |    |    |    |      | .08  | .94 |     | .31  |     |     |     |      |     |    |    |    | 4.72   |      |
| Clemson College   | .70           |      | 1.10 | .27  |      |      |      |      |     |    |    |    |    |     |     |    |    |    |      | T.   | .72 |     | .31  | .90 |     | .54 |      |     |    |    |    | 4.90   |      |
| Columbia          | .49           | T.   | .02  | 1.25 | T.   | T.   |      | .06  |     |    |    |    |    |     |     |    |    |    |      | .15  | .06 |     | .34  | .52 |     | .48 |      |     |    |    |    | 3.62   |      |
| Conway            | T.            | .15  |      | .05  | .25  |      |      | .90  | .50 |    |    |    |    |     |     |    |    |    |      | .27  | .50 |     | .23  | .39 | .01 | .43 |      |     |    |    |    | 3.65   |      |
| Darlington        | .12           | .34  | .01  | 1.70 |      |      |      | .10  |     |    |    |    |    |     |     |    |    |    |      | .50  | .15 |     | T.   | .35 |     | .20 |      |     |    |    |    | 3.10   |      |
| Dillon            | .43           | .01  | T.   | 1.03 | .30  |      | .92  |      |     |    |    |    |    | .01 |     |    |    |    |      | .90  | .08 |     | T.   | .57 |     | .32 |      |     |    |    |    | 4.24   |      |
| Due West          | .48           |      |      | 1.54 | .15  |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .66  |     |     | .68  | .40 | .13 | .05 |      |     |    |    |    | 4.62   |      |
| Edisto            | .61           | 1.00 | .48  | .80  | .63  |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .57  |     |     | .30  |     | .12 | .30 | .63  |     |    |    |    | 4.09   |      |
| Effingham         | T.            | .40  |      | .10  | .75  |      | .50  |      |     |    |    |    |    |     |     |    |    |    |      | .25  | .87 |     |      |     |     |     |      |     |    |    |    | 4.64   |      |
| Enoree            |               |      |      |      |      |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .50  | .60 |     |      | .75 | .90 |     |      |     |    |    |    | 4.50   |      |
| Florence          | .10           | .48  |      | 1.35 |      |      | .03  |      |     |    |    |    |    |     |     |    |    |    |      | .30  | .10 |     |      | .25 | .10 |     |      |     |    |    |    | 2.42   |      |
| Georgetown        | .50           |      | .25  |      |      |      | .90  |      |     |    |    |    |    |     |     |    |    |    |      | .24  |     |     | T.   | .14 |     | .53 |      |     |    |    |    | 3.43   |      |
| Greenville        | .13           | .59  | .03  | .73  |      |      | .05  |      |     |    |    |    |    |     |     |    |    |    |      | T.   |     |     | T.   | .14 |     | T.  |      |     |    |    |    | 1.90   |      |
| Greenwood         | .17           | .21  |      | .06  | 1.85 |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .10  | .02 |     | .02  | .45 |     | .11 |      |     |    |    |    | 2.23   |      |
| Heath Spring      | .16           |      | 1.51 |      |      |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .97  |     |     | .20  | .05 | .21 |     |      |     |    |    |    | 3.72   |      |
| Kingstree (1)     | .10           | .10  |      | .05  | .52  |      | .90  |      |     |    |    |    |    |     |     |    |    |    |      | .20  | .35 |     | .06  | .84 |     | .32 |      | .42 |    |    |    | 3.86   |      |
| Kingstree (2)     | .10           | .10  | T.   | .65  |      |      | .90  |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     |      |     |     |     |      |     |    |    |    |        |      |
| Liberty           | 1.25          | T.   | .05  | 1.22 |      |      | T.   | .05  |     |    |    |    |    |     |     |    |    |    |      | T.   | .20 | .10 |      | .30 |     | .24 |      |     |    |    |    | 2.59   |      |
| Little Mountain   | .73           |      | 1.25 |      | .13  |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .10  | .76 |     | .60  | .10 | .38 |     |      |     |    |    |    | 3.32   |      |
| Newberry          | .18           | .02  | T.   | 1.18 |      |      | T.   |      |     |    |    |    |    |     |     |    |    |    |      | .83  | .10 |     | .05  | .50 |     | .35 |      | .41 |    |    |    | 4.05   |      |
| Pelzer            | .18           | .72  |      | .88  |      |      | .10  |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     |      |     |     |     |      |     |    |    |    |        | 4.24 |
| Pinopolis         | .20           |      | 1.50 |      | .50  | 1.30 |      |      |     |    |    |    |    |     |     |    |    |    |      | .54  |     |     | .10  | .24 | .10 | .20 |      |     |    |    |    | 3.06   |      |
| St. George        | .31           | .14  |      | .94  |      |      | .60  |      |     |    |    |    |    | .10 |     |    |    |    |      | .20  | .12 |     |      |     |     |     | T.   |     |    |    |    | 3.92   |      |
| St. Matthews      | .37           | .40  |      |      | .55  | 1.55 | T.   |      |     |    |    |    |    |     |     |    |    |    |      | .72  |     |     |      |     |     | .35 |      |     |    |    |    | 3.06   |      |
| St. Stephens      | .20           | .10  |      | .02  | .25  |      | 1.40 |      |     |    |    |    |    |     |     |    |    |    | 1.20 |      |     | .52 |      | .47 |     | .15 | .12  |     |    |    |    | 5.33   |      |
| Saluda            | .58           | T.   | .02  | 1.51 | .27  | T.   | T.   |      |     |    |    |    |    |     |     |    |    |    |      | .30  |     |     |      | .16 |     | .20 |      |     |    |    |    | 2.64   |      |
| Santuc            | .49           | .02  | T.   | 1.10 | .44  |      | T.   | .12  |     |    |    |    |    |     |     |    |    |    |      | .70  |     | T.  |      | .41 | .73 | .54 |      |     |    |    |    | 4.76   |      |
| Savannah, Ga.     | .01           |      | .22  |      | .72  | .40  |      |      |     |    |    |    |    | .16 |     |    |    |    |      | T.   | .77 |     |      | .52 | .19 | .42 |      |     |    |    |    | 4.07   |      |
| Smith Mills       |               | .18  |      | .25  |      | .50  |      |      |     |    |    |    |    |     |     |    |    |    |      | .18  |     |     | T.   | .05 |     | T.  |      |     |    |    |    | 1.74   |      |
| Society Hill      |               |      | 1.75 |      | .67  |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .80  | .20 |     |      |     |     | .40 |      |     |    |    |    | 3.65   |      |
| Spartanburg       | .36           | .30  | T.   |      | 1.10 |      | .06  |      |     |    |    |    |    |     |     |    |    |    | 1.07 | .20  |     |     | 1.00 | .01 | .07 |     | .58  |     |    |    |    | 5.69   |      |
| Stateburg         | .61           | .03  | .05  | 2.20 |      | .31  |      |      |     |    |    |    |    |     |     |    |    |    |      | .60  |     |     | .38  | .02 | .12 | .31 |      |     |    |    |    | 2.89   |      |
| Summerville       | .03           | .15  | .02  | .06  | .33  | T.   | 1.18 |      |     |    |    |    |    |     |     |    |    |    |      | .56  | .66 |     | .83  | .33 | .35 |     |      |     |    |    |    | 5.93   |      |
| Sumter            |               |      |      |      |      |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .22  | .01 |     | T.   | .05 | .06 | T.  |      |     |    |    |    | 2.11   |      |
| Trenton           | .55           |      | 1.48 | .08  |      | .03  |      |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     |      |     |     |     |      |     |    |    |    |        |      |
| Trial             | .24           | .02  | .03  | .73  |      | .82  |      |      |     |    |    |    |    | .10 |     |    |    |    |      | .46  |     |     | .22  | .41 | .39 | .07 | .36  |     |    |    |    | 4.26   |      |
| Walhalla          | 1.20          |      | .10  |      | .15  |      |      |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     | .19  | .20 | .35 |     |      |     |    |    |    | 3.14   |      |
| Walterboro        |               |      |      |      |      |      |      |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     | .30  |     | .71 | T.  | 1.43 |     |    |    |    | 3.89   |      |
| Wilmington, N. C. | .04           | .05  |      | .30  | .52  |      | .07  |      |     |    |    |    |    |     |     |    |    |    |      | .53  |     |     | .01  | .01 | .12 |     |      |     |    |    |    | 2.55   |      |
| Winnsboro         | .10           | .01  | T.   | .37  |      | T.   | .99  |      |     |    |    |    |    | .05 |     |    |    |    |      | .02  |     |     | .73  |     | .36 | .01 | T.   |     |    |    |    | 2.64   |      |
| Winthrop College  |               |      | 1.00 | 1.00 |      |      |      |      |     |    |    |    |    |     |     |    |    |    |      | .35  | .40 |     | .78  | .90 | .22 |     |      |     |    |    |    | 4.65   |      |
| Yemassee          | .35           | .05  | T.   | .51  | .10  |      | T.   |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     | .40  | .49 | .35 | .06 | .18  |     |    |    |    | 4.26   |      |
| Yorkville         | .24           | .01  |      | .51  |      | .88  | .03  |      |     |    |    |    |    |     |     |    |    |    |      | .27  | T.  | .77 |      |     |     |     |      |     |    |    |    | 2.10   |      |
|                   | .25           | .04  | T.   | .88  | .42  |      | .06  |      |     |    |    |    |    |     |     |    |    |    |      |      |     |     | .40  |     | .44 | .15 |      |     |    |    |    | 3.52   |      |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MARCH, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

APRIL 26, 1907.

# TOTAL PRECIPITATION FOR MARCH, 1907.



Scale of Shading in Inches  
 Shading Moisture



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

Vol. X.

COLUMBIA, S. C., MARCH, 1907.

No. 3.

## GENERAL SUMMARY.

The marked features of the month were the phenomenally high temperatures of the third decade over practically the entire State. While the temperatures averaged above normal almost continuously throughout the month, the marked excess of the monthly mean temperature was due principally to the large daily excesses after the 25th of the month, when the maximum temperatures rose to or above 90° on an average of from 6 to 7 days in the southeastern counties, from 5 to 6 days in the central counties, and from 2 to 4 days in the western and North Carolina border counties.

The maximum temperature records of former years were exceeded at every station from 1° to 6°.

The minimum temperatures fell to 32° at a few stations in the western portion of the State. The lowest temperatures were recorded generally on the 4th and 7th. There was another cool spell of short duration on the 16th, when frost occurred in exposed places in the central and western counties.

In the extreme western and a portion of the northeastern counties the precipitation averaged from 2 to 3 inches; in the central and southeastern counties the precipitation was generally less than an inch. The rainfall was below normal over the entire State, the deficiency ranging from 1 to 4 inches.

The precipitation was general over the State on the 1st, 2d, 15th, and 31st, while scattered showers occurred on the 7th, 8th, 9th, and 26th.

The prevailing winds were westerly, generally from the west and southwest, with northeast the next most frequent direction. The total wind movement and the average hourly velocity were above normal along the coast and about normal in the interior.

The number of clear and partly cloudy days was above normal, and the number of cloudy days was below normal.

In comparison with the March weather of previous years, the month was noteworthy for having had a higher mean maximum temperature, a higher monthly mean temperature and higher maximum temperatures than any other, and it was also the driest of record.

## Temperature.

The monthly mean temperature for March, 1907, was 62.0°, which is 7.7° above normal. The highest local monthly mean was 67.6° at Walterboro, the lowest was 55.0° at Greenville. The monthly extremes were a maximum of 99° at Blackville and Darlington, and a minimum of 20° at Greenville, making the State range 79°. The greatest local monthly range was 71° at Greenville, the least was 49° at Clemson College and Charleston. The mean of the daily maximum temperatures

was 74.3°, and of the daily minimum temperatures was 49.7°, making the average daily range 24.6°.

## Precipitation.

The average precipitation was 1.57 inch, which is 2.30 inches below normal. The greatest local monthly amount was 3.02 inches at Clemson College, the least was 0.59 of an inch at Blackville. The greatest 24-hour rainfall was 1.60 inch at Walhalla on the 5th. The average number of days with 0.01 of an inch, or more, precipitation was 5, ranging from 2 at Aiken, Allendale, Pinopolis, and Smith Mills to 9 at Little Mountain and Newberry.

## Wind.

The prevailing direction of the wind was from the west and southwest at 14 stations, from the northeast at 11 stations, from the north, east, and south at 3 stations each, and from the northwest at 1 station.

**HIGH WINDS.**—High winds were noted at Bowman on the 3d, 8th, 14th, 19th, 20th, 22d, 23d, 24th; at Camden on the 3d, 6th, 13th, 14th, 19th, 22d, 24th, 25th, 28th, 29th; at Charleston on the 16th; at Cheraw on the 19th; at Columbia on the 12th, 13th, 19th; at Liberty on the 2d, 3d, 19th, 20th, 22d, 23d, 24th, 31st; at Newberry on the 21st, 22d, 23d; at Society Hill on the 29th; at Winthrop College on the 3d; at Yorkville on the 25th, 31st.

## Sunshine and Cloudiness.

The average number of clear days was 15, of partly cloudy days was 10, and of cloudy days was 6.

## MISCELLANEOUS PHENOMENA.

**PARHELION.**—At Liberty on the 25th.

**LUNAR HALO.**—At Society Hill on the 28th.

**SOLAR HALOS.**—At Camden on the 9th; at Columbia on the 16th.

**HAIL AND SLEET.**—Hail occurred at Camden on the 31st; sleet at Winthrop College on the 7th.

**FOGS, DENSE.**—At Beaufort on the 1st, 17th, 22d; at Blackville, Santuc on the 22d; at Camden on the 1st, 10th, 18th, 22d; at Charleston, Cheraw, Darlington, Liberty on the 1st; at Columbia on the 1st, 2d; at Newberry on the 1st, 10th; at Winthrop College, Yorkville on the 1st, 18th, 22d.

**THUNDERSTORMS.**—There were 39 thunderstorms noted on 6 dates, as follows: at Beaufort, Bowman, Summerville on the 2d, 31st; at Blackville, Yorkville on the 15th; at Camden, Society Hill on the 14th, 31st; at Charleston on the 2d, 31st; at Cheraw on the 15th, 31st; at Columbia on the 14th, 15th, 31st; at Darlington, Dillon, Georgetown, Spartanburg, Trial on the 31st; at Greenville, Little Mountain on the 1st; at Liberty on the 2d, 26th; at Newberry on the 1st, 14th; at Saluda, Santuc, Winthrop College on the 2d, 15th; at Trenton on the 1st, 15th, 26th.

## ERRATA.

The following corrections should be made in the January, 1907, Monthly Report: On page 5, at Blackville, the mean temperature, 55.5°, should be 55.0°; at Cheraw, the date of minimum temperature, 29th, should be 24th and 29th. On page 6, at Blackville, the mean minimum temperature, 44.5°, should be 43.5°; at Darlington, the mean maximum temperature, 62.8°, should be 62.9°.



## REMARKS BY OBSERVERS.

BEAUFORT.—The maximum temperature exceeds by four degrees the previous highest on record for either March or April. The accumulated deficiency in rainfall since January 1st is 4.43 inches.—Sidney M. Benton. BOWMAN.—The month was remarkable for high temperatures during the third decade when midsummer heat prevailed, as well as for the small precipitation during the latter half of the month. The wind movement was unusually heavy.—B. O. Evans. CAMDEN.—The month was warm and vegetation made rapid growth. The third decade was exceptionally hot and dry.—J. B. Mickle. CLARK'S HILL.—Peach trees were in full bloom by the 20th.—Wm. S. Middleton. LIBERTY.—The precipitation was light but well distributed thruout the month, which with unusually high temperatures advanced vegetation rapidly. The month was very windy. Peach trees began to bloom on the 10th and pear trees on the 20th.—Jno. T. Boggs. SANTUC.—The month was generally warm, while the latter portion had almost midsummer heat. The maximum temperature for the month was the highest recorded in any March since the establishment of the station, a period of 14 years.—E. W. Jeter. SOCIETY HILL.—No killing frost occurred. The monthly mean temperature was the highest in 16 years, except in 1903, when it was 0.6° higher.—Maj. J. J. Lucas. SUMMERVILLE.—This was the warmest March of record, especially from the 20th to the end of the month.—Miss E. H. Gadsden. TRENTON.—The accumulated precipitation is 6.87 inches less than the normal for the first three months.—C. A. Long. YORKVILLE.—The weather was unusually warm during the latter part of the month.—J. R. Schorb.

## BAROMETER AND WIND TABLE FOR MARCH, 1907.

| STATIONS          | BAROMETER. |          |       |         |       | WIND            |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.12      | 30.52    | 16    | 29.88   | 24    | 5.491           | 7.4             | 38                | nw.        | 14    |
| Charleston.       | 30.13      | 30.48    | 16    | 29.86   | 24    | 9.359           | 12.6            | 40                | ne.        | 16    |
| Charlotte, N. C.  | 30.12      | 30.56    | 16    | 29.83   | 19    | 6.441           | 8.7             | 35                | sw.        | 19    |
| Columbia.         | 30.12      | 30.55    | 16    | 29.85   | 24    | 6.062           | 8.1             | 33                | sw.        | 13    |
| Savannah, Ga.     | 30.14      | 30.46    | 16    | 29.90   | 24    | 6.709           | 9.0             | 28                | n.         | 31    |
| Wilmington, N. C. | 30.12      | 30.57    | 16    | 29.79   | 24    | 7.254           | 9.8             | 34                | ne.        | 25    |
| Averages.         | 30.13      | 30.57    | 16    | 29.79   | 24    | 6.886           | 9.3             | 40                | ne.        | 16    |

## PRECIPITATION DATA FOR COLUMBIA, S. C.

## Monthly and Annual Precipitation.

| Year  | Jan. | Feb. | Mar. | April | May  | June | July  | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|-------|------|-------|------|------|------|-------|
| 1887. |      |      |      |       |      | 3.97 | 6.04  | 5.21 | 0.56  | 7.47 | 0.55 | 3.73 | ..... |
| 1888. | 2.30 | 4.25 | 6.20 | 0.91  | 6.66 | 2.18 | 4.57  | 5.49 | 5.71  | 4.29 | 2.29 | 3.07 | 47.91 |
| 1889. | 5.18 | 5.75 | 2.44 | 1.51  | 0.95 | 4.02 | 9.26  | 8.30 | 2.41  | 3.62 | 3.57 | 0.75 | 47.76 |
| 1890. | 1.07 | 1.58 | 2.80 | 2.19  | 4.17 | 1.13 | 9.34  | 3.93 | 7.09  | 4.35 | 1.47 | 1.57 | 40.69 |
| 1891. | 3.21 | 3.70 | 6.99 | 1.20  | 2.92 | 4.65 | 5.01  | 8.13 | 4.94  | 1.31 | 2.39 | 1.92 | 46.37 |
| 1892. | 7.63 | 4.41 | 3.78 | 1.43  | 2.59 | 3.09 | 4.71  | 9.72 | 4.64  | 0.29 | 1.55 | 1.67 | 45.52 |
| 1893. | 1.36 | 4.83 | 1.20 | 0.47  | 3.79 | 8.53 | 2.95  | 8.64 | 2.79  | 2.48 | 1.72 | 2.91 | 41.67 |
| 1894. | 1.73 | 5.33 | 2.09 | 1.37  | 1.69 | 2.89 | 5.01  | 5.95 | 5.18  | 4.40 | 1.73 | 2.29 | 39.06 |
| 1895. | 7.27 | 3.25 | 6.38 | 5.91  | 3.80 | 3.59 | 5.50  | 9.57 | 1.47  | 1.48 | 1.71 | 3.27 | 53.20 |
| 1896. | 3.16 | 8.00 | 1.52 | 0.95  | 3.66 | 3.26 | 10.89 | 2.38 | 0.74  | 0.42 | 3.53 | 3.38 | 41.89 |
| 1897. | 2.28 | 9.11 | 3.66 | 2.32  | 1.30 | 4.43 | 9.66  | 5.13 | 2.49  | 1.87 | 1.06 | 1.90 | 45.21 |
| 1898. | 1.78 | 0.60 | 3.29 | 4.90  | 1.15 | 3.02 | 12.17 | 9.85 | 3.04  | 2.39 | 5.78 | 1.46 | 49.53 |
| 1899. | 5.41 | 8.59 | 3.57 | 2.42  | 0.95 | 2.56 | 5.27  | 6.28 | 3.13  | 6.95 | 1.89 | 3.01 | 49.74 |
| 1900. | 1.57 | 5.93 | 4.35 | 5.63  | 3.50 | 6.80 | 4.35  | 0.61 | 3.29  | 4.88 | 3.65 | 0.17 | 50.73 |
| 1901. | 3.34 | 3.11 | 4.59 | 4.04  | 8.52 | 4.94 | 2.58  | 7.76 | 6.13  | 0.47 | 0.95 | 4.88 | 51.22 |
| 1902. | 1.85 | 5.12 | 4.16 | 3.23  | 3.33 | 4.43 | 2.78  | 7.14 | 2.86  | 4.39 | 3.31 | 3.60 | 46.20 |
| 1903. | 3.06 | 7.30 | 3.90 | 3.11  | 2.39 | 9.97 | 2.94  | 9.47 | 2.68  | 1.91 | 1.36 | 1.70 | 49.82 |
| 1904. | 2.62 | 3.01 | 2.63 | 1.23  | 1.06 | 3.05 | 3.21  | 7.19 | 2.50  | 2.33 | 2.11 | 2.38 | 33.76 |
| 1905. | 1.71 | 5.03 | 2.26 | 7.51  | 3.75 | 0.66 | 6.90  | 9.30 | 2.57  | 1.43 | 1.30 | 7.31 | 49.96 |
| 1906. | 4.12 | 1.60 | 5.01 | 2.74  | 2.25 | 8.66 | 8.51  | 6.85 | 3.64  | 1.60 | 6.80 | 2.56 | 48.54 |
| M'ns  | 3.19 | 4.76 | 3.72 | 3.79  | 3.06 | 4.31 | 6.08  | 6.87 | 3.39  | 2.92 | 2.14 | 2.98 | 46.21 |

## Extremes of Precipitation.

| Month.    | 24-Hour Max. | Year. | Date. | Greatest Monthly. | Year. | Least Monthly. | Year. |
|-----------|--------------|-------|-------|-------------------|-------|----------------|-------|
| January   | 2.93         | 1892  | 18    | 7.63              | 1892  | 1.07           | 1890  |
| February  | 3.83         | 1896  | 5-6   | 9.11              | 1897  | 0.60           | 1896  |
| March     | 2.83         | 1901  | 25-26 | 6.09              | 1894  | 0.88           | 1907  |
| April     | 3.49         | 1905  | 12-13 | 7.51              | 1905  | 0.91           | 1898  |
| May       | 4.88         | 1901  | 20-21 | 8.52              | 1901  | 0.65           | 1899  |
| June      | 3.60         | 1903  | 6     | 9.97              | 1903  | 0.66           | 1905  |
| July      | 4.16         | 1898  | 5-6   | 12.17             | 1898  | 2.58           | 1901  |
| August    | 4.30         | 1893  | 27-28 | 9.85              | 1896  | 0.61           | 1900  |
| September | 4.90         | 1901  | 17-18 | 7.09              | 1890  | 0.56           | 1892  |
| October   | 3.19         | 1894  | 8-9   | 7.43              | 1887  | 0.27           | 1892  |
| November  | 2.03         | 1900  | 2-3   | 5.78              | 1896  | 0.55           | 1887  |
| December  | 2.33         | 1905  | 2-3   | 7.34              | 1905  | 0.75           | 1899  |

## RIVER GAGE READINGS, MARCH, 1907.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 1.4   | 2.6      | *2    | 0.3     | 23    |
| Calhoun Falls    | 3.5   | 5.0      | 2     | 2.4     | *30   |
| Camden           | 7.9   | 11.7     | 2     | 5.2     | 31    |
| Catawba          | 2.7   | 4.1      | 4     | 1.7     | 31    |
| Chappells        | 2.8   | 8.0      | 3     | 1.8     | *21   |
| Cheraw           | 5.8   | 13.0     | 16    | 2.3     | *30   |
| Columbia         | 1.8   | 3.2      | 3     | 1.0     | *24   |
| Edisto           | 3.4   | 4.7      | 7     | 2.4     | 31    |
| Ellingham        | 5.0   | 8.8      | *4    | 2.8     | 31    |
| Kingstree        | 6.4   | 8.5      | 9     | 4.2     | *31   |
| Mt. Holly, N. C. | 2.0   | 2.6      | 15    | 1.8     | *23   |
| Pelzer           | 3.9   | 5.0      | *2    | 3.2     | *25   |
| Summit           | 9.6   | 12.6     | *4    | 6.6     | 31    |
| St. Stephens     | 7.3   | 8.6      | 10    | 4.7     | 31    |
| Smith Mills      | 10.9  | 12.9     | *8    | 5.3     | 31    |

## COMPARATIVE MARCH DATA FOR SOUTH CAROLINA.

| Year      | Temperature. |               |               |         |         |          | Precipitation.    |                      |                |                     | Number Rainy Days. | Prevailing Wind Direction. |
|-----------|--------------|---------------|---------------|---------|---------|----------|-------------------|----------------------|----------------|---------------------|--------------------|----------------------------|
|           | Mean         | Mean Maximum. | Mean Minimum. | Maximum | Minimum | Average. | Greatest Monthly. |                      | Least Monthly. |                     |                    |                            |
|           |              |               |               |         |         |          | Amount.           | Place.               | Amount.        | Place.              |                    |                            |
| 1894..... | 59.3         | 70.0          | 48.6          | 90      | 15      | 2.08     | 3.49              | Pinopolis.           | 0.71           | Little Mountain.    | 7                  | SW.                        |
| 1895..... | 53.5         | 63.1          | 43.7          | 90      | 24      | 5.71     | 7.64              | Trenton.             | 3.66           | Kingstree.          | 11                 | SW.                        |
| 1896..... | 53.1         | 64.5          | 51.5          | 93      | 19      | 2.12     | 4.10              | Allendale.           | T.             | Shaw's Fork.        | 5                  | SW.                        |
| 1897..... | 56.4         | 65.5          | 47.3          | 92      | 21      | 4.54     | 7.81              | Gillisonville.       | 2.15           | Conway.             | 12                 | SW.                        |
| 1898..... | 59.1         | 68.8          | 49.4          | 92      | 22      | 2.99     | 5.38              | Trenton.             | 1.30           | Allendale.          | 7                  | NE.                        |
| 1899..... | 55.2         | 66.3          | 44.0          | 89      | 12      | 3.89     | 9.10              | Central.             | 1.51           | Beaufort.           | 9                  | SW.                        |
| 1900..... | 51.6         | 62.6          | 40.6          | 79      | 22      | 4.22     | 7.58              | Greenville.          | 0.98           | Pinopolis.          | 9                  | SW.                        |
| 1901..... | 53.4         | 64.9          | 41.9          | 86      | 10      | 4.36     | 8.64              | Greenville, Liberty. | 2.27           | Pinopolis, Yemassee | 8                  | SW.                        |
| 1902..... | 54.6         | 65.1          | 45.0          | 86      | 19      | 4.08     | 7.19              | Trenton.             | 1.90           | Darlington.         | 10                 | SW.                        |
| 1903..... | 60.4         | 69.4          | 51.4          | 84      | 26      | 5.92     | 11.14             | Batesburg.           | 1.53           | Bowman.             | 10                 | NE.                        |
| 1904..... | 56.2         | 66.7          | 44.4          | 87      | 23      | 3.42     | 5.52              | Wallalla.            | 1.54           | Charleston.         | 9                  | NE.                        |
| 1905..... | 57.8         | 69.2          | 46.5          | 93      | 25      | 2.15     | 3.96              | Cheraw.              | 0.89           | Anderson.           | 9                  | NE.                        |
| 1906..... | 51.6         | 62.4          | 40.8          | 52      | 18      | 5.34     | 10.25             | Walhalla.            | 3.26           | St Matthews         | 10                 | W.                         |
| 1907..... | 62.0         | 74.3          | 49.7          | 99      | 20      | 1.57     | 3.02              | Clemson College.     | 0.59           | Blackville.         | 5                  | SW.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF MARCH, 1907.

|                                       |              | Temperature in degrees Fahrenheit |      |      |       |         |     |        |      |      |       | Precipitation in inches |      |        |      | Sky     |     |                   |                       |                     |  |
|---------------------------------------|--------------|-----------------------------------|------|------|-------|---------|-----|--------|------|------|-------|-------------------------|------|--------|------|---------|-----|-------------------|-----------------------|---------------------|--|
| STATIONS                              | COUNTIES     | Lowest                            | High | Mean | Range | Wettest | Dry | Lowest | High | Mean | Range | Wettest                 | Dry  | Lowest | High | Wettest | Dry | Lowest            | High                  |                     |  |
| Aiken                                 | Aiken        | 568                               | 23   | 61.5 | +9.9  | 93      | 723 | 10     | 38   | 0.65 | -3.65 | 0.60                    | 0    | 2      | 20   | 2       | 6   | SW                | C. F. McGahan, M. D.  |                     |  |
| Allendale                             | Barnwell     | 186                               | 19   | 61.2 | +8.1  | 93      | 34  | 11     | 7    | 0.67 | -2.64 | 0.42                    | 0    | 2      | 19   | 0       | 5   | W.                | A. R. Hoots           |                     |  |
| Anderson                              | Anderson     | 794                               | 0    | 60.8 | +9.9  | 91      | 20  | 15     | 11   | 1.00 | 0.80  | 0                       | 7    | 10     | 6    | 9       | W.  | H. H. Russell     |                       |                     |  |
| Augusta, Ga.                          | Richmond     | 181                               | 36   | 64.4 | +8.5  | 93      | 3   | 11     | 8    | 1.18 | -4.01 | 0.64                    | 0    | 4      | 13   | 11      | 4   | W.                | Weather Bureau.       |                     |  |
| Barksdale                             | Laurens      | 680                               | 0    |      |       |         |     |        |      |      |       |                         |      |        |      |         |     |                   | J. T. Garrett.        |                     |  |
| Batesburg                             | Lexington    | 650                               | 10   | 64.0 | +9.1  | 92      | 23  | 34     | 16   | 0.96 | -3.04 | 0.53                    | 0    | 3      | 19   | 0       | 12  | E.                | E. J. Hite.           |                     |  |
| Beaufort                              | Beaufort     | 20                                | 21   | 60.0 | +7.5  | 93      | 25  | 42     | 29   | 1.5  | -1.72 | 0.95                    | 0    | 5      | 18   | 9       | 1   | W.                | S. M. Barton          |                     |  |
| Bennettsville                         | Marlboro     | 151                               | 6    | 62.6 |       | 97      | 23  | 35     | 16   | 1.81 | 0.57  | 0                       | 5    | 20     | 8    | 4       | 1   | W.                | C. S. McCall          |                     |  |
| Blackville                            | Barnwell     | 200                               | 19   | 65.8 | +9.2  | 90      | 23  | 38     | 4    | 0.59 | -2.98 | 0.27                    | 0    | 5      | 17   | 8       | 6   | W.                | G. D. C. Lange        |                     |  |
| Bluffs                                | Fairfield    | 203                               | 2    |      |       |         |     |        |      | 1.52 | 0.64  | 0                       | 5    | 16     | 7    | 8       | W.  | T. S. McMeekin    |                       |                     |  |
| Bowman                                | Orangeburg   | 100                               | 6    | 64.8 |       | 96      | 23  | 33     | 2    | 1.60 | 0.55  | 0                       | 4    | 21     | 4    | 6       | W.  | B. O. Evans       |                       |                     |  |
| Calhoun Falls                         | Abbeville    | 508                               | 11   |      |       |         |     |        |      | 2.69 | -1.78 | 0.92                    | 0    | 4      | 25   | 0       | 6   | W.                | P. J. Pfeiffer        |                     |  |
| Camden (1)                            | Kershaw      | 2                                 | 2    | 61.5 |       | 94      | 23  | 35     | 7    | 1.46 | 0.61  | 0                       | 7    | 10     | 6    | 6       | W.  | J. B. Mickle      |                       |                     |  |
| Camden (2)                            | Kershaw      | 222                               | 41   |      |       |         |     |        |      | 1.20 | -2.27 | 0.54                    | 0    | 3      | 16   | 3       | 12  | E.                | W. C. Brown           |                     |  |
| Catawba                               | York         | 2                                 | 2    |      |       |         |     |        |      | 1.10 | 0.56  | 0                       | 3    | 9      | 11   | 11      | ne. | James Y. Brice    |                       |                     |  |
| Chapin                                | Newberry     | 402                               | 2    |      |       |         |     |        |      | 1.29 | 0.42  | 0                       | 6    | 16     | 8    | 7       | ne. | J. A. Meidan      |                       |                     |  |
| Charleston                            | Charleston   | 48                                | 38   | 65.0 | +7.8  | 94      | 23  | 45     | 2    | 1.01 | -2.93 | 0.47                    | 0    | 3      | 14   | 11      | 6   | SW.               | Weather Bureau.       |                     |  |
| Charlotte, N. C.                      | Mecklenburg  | 808                               | 29   | 57.6 | +6.8  | 91      | 23  | 32     | 2    | 2.0  | -2.65 | 0.65                    | 0    | 9      | 12   | 11      | 8   | SW.               | Weather Bureau.       |                     |  |
| Cheraw (1)                            | Chesterfield | 141                               | 19   | 58.8 | +5.8  | 93      | 23  | 31     | 7    | 1.78 | -1.95 | 0.78                    | 0    | 6      | 9    | 8       | 11  | W.                | W. R. Godfrey         |                     |  |
| Cheraw (2)                            | Chesterfield | 141                               | 14   |      |       |         |     |        |      | 1.84 | -1.87 | 0.82                    | 0    | 6      | 17   | 11      | 3   | ne.               | Jno. H. Powe          |                     |  |
| Clarks Hill                           | Edgefield    | 500                               | 5    | 62.5 |       | 91      | 22  | 38     | 7    | 1.66 | 0.38  | 0                       | 6    | 23     | 4    | 4       | W.  | Wm. S. Middleton  |                       |                     |  |
| Clemson College                       | Oconee       | 850                               | 10   | 59.4 | +6.7  | 87      | 22  | 38     | 7    | 3.02 | -1.45 | 1.00                    | 0    | 9      | 7    | 19      | 5   | SW.               | Jno. S. Hook          |                     |  |
| Columbia                              | Richland     | 351                               | 20   | 62.7 | +8.7  | 93      | 23  | 37     | 7    | 0.88 | -3.65 | 0.28                    | 0    | 9      | 7    | 19      | 5   | SW.               | Central Office.       |                     |  |
| Conway                                | Horry        | 25                                | 15   | 62.1 |       | 90      | 23  | 30     | 7    | 1.37 | -2.20 | 0.60                    | 0    | 5      | 21   | 3       | 7   | SW.               | P. C. Quattlebaum     |                     |  |
| Darlington                            | Darlington   | 175                               | 12   | 61.2 |       | 90      | 23  | 29     | 7    | 2.58 | -6.62 | 1.28                    | 0    | 7      | 16   | 7       | 7   | W.                | D. C. McCall          |                     |  |
| Dillon                                | Marion       | 100                               | 3    | 61.0 |       | 97      | 23  | 20     | 7    | 2.23 | 1.06  | 0                       | 3    | 22     | 2    | 7       | W.  | A. E. Rowell      |                       |                     |  |
| Due West                              | Abbeville    | 730                               | 6    | 61.4 |       | 90      | 20  | 38     | 7    | 1.78 | 0.87  | 0                       | 3    | 22     | 1    | 1       | SW. | Rev. O. Y. Bonner |                       |                     |  |
| Edisto                                | Bamberg      | 127                               | 14   |      |       |         |     |        |      | 2.18 | -1.40 | 0.96                    | 0    | 3      | 23   | 1       | 1   | SW.               | Mrs. M. Thompson      |                     |  |
| Ellington                             | Florence     | 168                               | 12   |      |       |         |     |        |      | 0.75 | -2.17 | 0.75                    | 0    | 4      | 23   | 0       | 0   | ne.               | H. B. McCall          |                     |  |
| Enoree                                | Spartanburg  | 987                               | 2    |      |       |         |     |        |      |      |       |                         |      |        |      |         |     | ne.               | P. R. Thompson        |                     |  |
| Florence                              | Florence     | 136                               | 19   | 59.8 | +4.7  | 98      | 23  | 31     | 7    | 1.13 | -1.77 | 0.43                    | 0    | 4      | 16   | 4       | 11  | ne.               | H. K. Gilbert         |                     |  |
| Georgetown                            | Georgetown   | 12                                | 14   | 64.4 | +7.1  | 92      | 23  | 42     | 5    | 1.21 | -1.86 | 0.50                    | 0    | 4      | 21   | 8       | 2   | SW.               | Reid Whitford         |                     |  |
| Greenville                            | Greenville   | 980                               | 15   | 55.0 | +5.3  | 91      | 22  | 20     | 4    | 2.14 | -3.08 | 0.62                    | 0    | 8      | 15   | 7       | 9   | SW.               | Mrs. S. A. Crittenden |                     |  |
| Greenwood                             | Greenwood    | 671                               | 19   | 50.5 | +4.8  | 89      | 21  | 37     | 4    | 1.94 | -2.37 | 0.89                    | 0    | 4      | 16   | 0       | 14  | W.                | M. M. Calhoun         |                     |  |
| Heath Spring                          | Laurens      | 568                               | 6    | 61.7 |       | 91      | 23  | 32     | 7    | 1.60 | 0.66  | 0                       | 5    | 14     | 10   | 7       | W.  | J. A. Weaver      |                       |                     |  |
| Kingstree (1)                         | Williamsburg | 54                                | 19   | 68.2 | +11.8 | 95      | 23  | 41     | 7    | 1.05 | -1.82 | 0.65                    | 0    | 3      | 19   | 2       | 10  | ne.               | J. A. Scott           |                     |  |
| Kingstree (2)                         | Williamsburg | 54                                | 13   |      |       |         |     |        |      | 1.24 | -1.00 | 0.67                    | 0    | 3      | 19   | 2       | 10  | ne.               | A. O. Matthews        |                     |  |
| Liberty                               | Pickens      | 500                               | 13   | 60.4 | +9.0  | 91      | 22  | 35     | 7    | 2.78 | -2.28 | 0.80                    | 0    | 6      | 20   | 6       | 5   | SW.               | Jno. T. Boggs         |                     |  |
| Little Mountain                       | Newberry     | 630                               | 14   | 62.0 | +9.7  | 92      | 22  | 31     | 7    | 2.23 | -1.33 | 0.50                    | 0    | 9      | 12   | 13      | 0   | W.                | John M. Sease, M. D.  |                     |  |
| Newberry                              | Newberry     | 502                               | 3    | 60.5 | +7.1  | 92      | 22  | 32     | 4    | 2.32 | -1.86 | 0.55                    | 0    | 9      | 5    | 17      | 9   | ne.               | W. G. Peterson        |                     |  |
| Pelzer                                | Anderson     | 873                               | 2    |      |       |         |     |        |      | 2.04 | 0.62  | 0                       | 6    | 16     | 7    | 8       | W.  | John M. Ward      |                       |                     |  |
| Pinopolis                             | Berkeley     | 54                                | 14   | 64.6 | +9.0  | 80      | 23  | 40     | 7    | 2.00 | -1.66 | 1.00                    | 0    | 2      | 21   | 0       | 10  | ne.               | E. P. Ravenel         |                     |  |
| St. George                            | Dorchester   | 109                               | 19   | 65.5 | +8.7  | 91      | 23  | 39     | 7    | 3.3  | 0.90  | 0.35                    | 0    | 3      | 24   | 0       | 7   | W.                | G. T. Lewis           |                     |  |
| St. Matthews                          | Orangeburg   | 209                               | 19   | 62.2 | +7.1  | 92      | 23  | 35     | 7    | 3.9  | -2.35 | 0.48                    | 0    | 3      | 23   | 0       | 8   | W.                | J. S. Warramaker      |                     |  |
| St. Stephen                           | Berkeley     | 75                                | 15   |      |       |         |     |        |      | 0.95 | -2.13 | 0.35                    | 0    | 4      | 18   | 5       | 8   | W.                | C. T. Shuler          |                     |  |
| Saluda                                | Saluda       | 540                               | 6    | 62.2 |       | 92      | 23  | 32     | 6    | 1.70 | 0.45  | 0                       | 6    | 15     | 7    | 6       | W.  | Alvin Etheridge   |                       |                     |  |
| Santee                                | Union        | 512                               | 13   | 59.0 | +7.0  | 92      | 23  | 31     | 7    | 3.8  | -2.20 | 0.77                    | 0    | 8      | 10   | 15      | 6   | W.                | E. W. Jeter           |                     |  |
| Savannah, Ga.                         | Chatham      | 71                                | 8    | 67.1 | +8.8  | 94      | 23  | 44     | 7    | 2.9  | -3.27 | 0.22                    | 0    | 3      | 16   | 10      | 5   | W.                | Weather Bureau.       |                     |  |
| Smiths Mill                           | Williamsburg | 62                                | 12   |      |       |         |     |        |      | 0.90 | -2.56 | 0.50                    | 0    | 2      | 16   | 2       | 13  | ne.               | H. van Keuren         |                     |  |
| Society Hill                          | Darlington   | 102                               | 16   | 60.2 | +5.1  | 90      | 22  | 31     | 6    | 3.0  | 0.81  | 1.06                    | 0    | 4      | 15   | 9       | 7   | ne.               | J. J. Lucas           |                     |  |
| Spartanburg                           | Spartanburg  | 875                               | 16   | 58.6 | +8.4  | 95      | 23  | 32     | 7    | 4.1  | -3.00 | 0.67                    | 0    | 7      | 13   | 1       | 17  | ne.               | F. P. Robinson        |                     |  |
| Stateburg                             | Sumter       | 500                               | 30   |      |       |         |     |        |      | 0.93 | -2.23 | 0.51                    | 0    | 4      | 8    | 18      | 5   | SW.               | W. W. Anderson, M. D. |                     |  |
| Summerville                           | Dorchester   | 75                                | 10   | 60.2 | +9.7  | 98      | 25  | 34     | 7    | 4.0  | 0.93  | -2.23                   | 0.51 | 0      | 4    | 8       | 18  | 5                 | SW.                   | Miss E. H. Gadsden  |  |
| Sumter                                | Sumter       | 169                               | 6    |      |       |         |     |        |      |      |       |                         |      |        |      |         |     | SW.               | T. M. Bradley         |                     |  |
| Trenton                               | Edgefield    | 620                               | 14   | 60.6 | +5.4  | 90      | 23  | 38     | 16   | 3.0  | -1.60 | 0.52                    | 0    | 4      | 13   | 12      | 3   | W.                | C. A. Long            |                     |  |
| Trial                                 | Berkeley     | 85                                | 21   | 64.0 | +9.1  | 95      | 23  | 31     | 7    | 3.9  | 0.98  | 2.64                    | 0.37 | 0      | 5    | 14      | 12  | 5                 | W.                    | Etsell Gaillard     |  |
| Walhalla                              | Oconee       | 1661                              | 16   | 61.5 | +11.5 | 94      | 22  | 36     | 4    | 3.8  | 2.83  | -3.95                   | 1.60 | 0      | 6    | 7       | 21  | 3                 | W.                    | Miss Jessie Douthit |  |
| Walterboro                            | Colleton     | 69                                | 4    | 67.6 |       | 98      | 23  | 36     | 7    | 3.8  | 1.21  | 0.49                    | 0    | 6      | 15   | 8       | 5   | W.                | J. A. Westerberg      |                     |  |
| Wilmington, N. C.                     | New Hanover  | 52                                | 38   | 59.8 | +6.1  | 94      | 23  | 32     | 7    | 3.2  | 1.40  | -2.55                   | 0.37 | 0      | 8    | 12      | 14  | 5                 | SW.                   | Weather Bureau.     |  |
| Winnsboro                             | Fairfield    | 545                               | 18   | 61.2 | +9.1  | 92      | 23  | 35     | 7    | 4.0  | 1.95  | -1.66                   | 0.70 | 0      | 4    | 23      | 3   | 5                 | ne.                   | John W. Seigler     |  |
| Winthrop College                      | York         | 600                               | 8    | 58.2 | +5.6  | 86      | 22  | 35     | 7    | 4.5  | 2.18  | -2.08                   | 0.68 | 0      | 8    | 19      | 7   | 5                 | SW.                   | E. R. Rivers        |  |
| Yemassee                              | Beaufort     | 23                                | 12   | 64.6 | +6.0  | 92      | 30  | 36     | 7    | 4.0  | 0.80  | -2.25                   | 0.40 | 0      | 4    | 17      | 2   | 12                | SW.                   | J. G. Hutson        |  |
| Yorkville                             | York         | 680                               | 19   | 60.5 | +7.4  | 94      | 23  | 37     | 7    | 3.7  | 1.99  | -2.91                   | 0.70 | 0      | 6    | 7       | 14  | 10                | SW.                   | J. R. Schorb        |  |
| MEANS—highest, lowest and dates, etc. |              |                                   |      | 62.0 | +7.7  | 99      | 23  | 20     | 4    | 45   | 1.57  | -2.30                   | 1.60 | 0      | 5    | 15      | 10  | 6                 | SW.                   |                     |  |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. \* Maximum thermometer not standard. † Minimum thermometer not standard. § Exposed not standard. \* On other dates also. † indicates 1 day missing, 2, 2 days, etc. ‡ The state of sky at 8 a.m. not used in averages.



APPENDIX.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.



100

## DAILY PRECIPITATION FOR SOUTH CAROLINA. MARCH, 1907.

| STATIONS.         | Day of Month. |      |     |   |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    | Total. |      |      |      |
|-------------------|---------------|------|-----|---|----|----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|----|----|-----|-----|-----|----|----|--------|------|------|------|
|                   | 1             | 2    | 3   | 4 | 5  | 6  | 7   | 8   | 9   | 10  | 11  | 12 | 13 | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21 | 22  | 23 | 24 | 25 | 26 | 27  | 28  | 29  | 30 | 31 |        |      |      |      |
| Aiken             |               |      |     |   |    |    |     |     |     |     |     |    |    |     | .60 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    | .35    | 0.95 |      |      |
| Allendale         | .23           |      |     |   |    |    |     |     |     |     |     |    |    |     | .42 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | 0.67 |      |      |
| Anderson          | .02           | .80  |     |   |    |    | .09 |     |     | .09 |     |    |    |     | .33 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .60  | 1.96 |      |
| Augusta, Ga.      |               | .07  |     |   |    |    | T.  |     |     |     |     |    |    | .64 | T.  | T.  | .13 |     |     |    |    |     |    |    |    |    | T.  | .03 |     |    |    | .34    | 1.18 |      |      |
| Barksdale         |               |      |     |   |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      |      |      |
| Batesburg         | .53           | .14  |     |   |    |    |     |     |     |     |     |    |    |     | .29 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      |      |      |
| Beaufort          | .02           | .18  |     |   |    |    |     |     |     |     |     |    |    |     | .29 |     |     |     |     |    |    |     |    |    |    |    |     | T.  |     |    |    |        |      |      |      |
| Bennettsville     | .12           |      |     |   |    |    | .29 |     |     | .29 |     |    |    |     | .21 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .95  | 1.37 |      |
| Blackville        | .18           | .04  |     |   |    |    |     |     |     |     |     |    |    |     | .54 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .57  | 1.81 |      |
| Blairs            | .40           | .36  |     |   |    |    |     | .06 |     | .01 |     |    |    |     | .27 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 0.59 |      |
| Bowman            | .33           | .47  |     |   |    |    | T.  |     |     | T.  |     |    |    |     | .64 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.52 |      |
| Calhoun Falls     | .68           | .92  |     |   |    |    |     |     |     |     |     |    |    |     | .55 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .34  | 1.69 |      |
| Camden (1)        | .31           |      |     |   |    |    | .15 |     |     | .11 |     |    |    |     | .61 |     |     | .42 |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .26  | 2.69 |      |
| Camden (2)        |               | .46  |     |   |    |    |     | .20 |     |     |     |    |    |     |     | .05 |     | .03 |     |    |    |     |    |    |    |    | T.  |     |     |    |    |        | .20  | 1.46 |      |
| Catawba           |               |      |     |   |    |    | .40 |     |     | .14 |     |    |    |     | .54 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.20 |      |
| Chappells         | .42           | .26  |     |   |    |    | T.  | T.  |     | .10 |     |    |    |     | .56 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.10 |      |
| Charleston        | T.            | .08  |     |   |    |    | T.  | T.  |     | T.  |     |    |    |     | .46 |     |     |     |     |    |    |     |    |    |    |    | .02 | .08 |     |    |    |        |      | 1.26 |      |
| Charlotte, N. C.  | .02           | .19  |     |   |    |    | .33 |     |     | .23 |     |    |    | T.  | .64 |     |     | T.  | .01 |    |    |     |    |    |    |    |     |     |     |    |    |        | .47  | 1.01 |      |
| Cheraw (1)        | .47           | .07  |     |   |    |    |     | .25 |     | .11 | .10 |    |    |     | .78 |     |     |     |     |    |    | .01 |    |    |    |    |     |     |     |    |    |        | .65  | 2.09 |      |
| Cheraw (2)        | .45           | .08  |     |   |    |    | T.  | .27 |     | .14 | .08 |    |    |     | .82 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.78 |      |
| Clark's Hill      |               | .36  |     |   |    |    |     |     |     |     |     |    |    |     | T.  |     | .32 |     |     |    |    |     |    |    |    |    | T.  |     |     |    |    |        | .38  | 1.06 |      |
| Clemson College   | .03           | 1.00 |     |   |    |    | .12 |     | .22 |     |     |    |    |     | .75 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .90  | 3.02 |      |
| Columbia          | .06           | .09  |     |   |    |    | .06 |     | T.  | .03 |     |    |    | .14 | .10 |     | .62 |     |     |    |    |     |    |    |    |    |     | .10 |     |    |    |        | .28  | 0.88 |      |
| Conway            | .60           | .10  | .05 |   |    |    | .12 |     |     |     |     |    |    |     | .50 |     |     | .62 |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .15  | 1.57 |      |
| Darlington        |               | .28  |     |   |    |    | .01 | .28 |     | .12 | .01 |    |    |     | .61 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | 1.28 | 2.58 |      |
| Dillon            | .58           | .09  |     |   |    |    | .10 | .08 |     | .13 |     |    |    |     | .19 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | 1.06 | 2.23 |      |
| Due West          |               |      |     |   |    |    |     |     |     |     |     |    |    |     | .81 |     | .10 |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .87  | 1.78 |      |
| Edisto            |               | .96  |     |   |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .72  | 2.18 |
| Effingham         | .75           |      |     |   |    |    |     |     |     |     |     |    |    |     | T.  |     |     |     | .50 |    |    |     |    |    |    |    |     |     |     |    |    |        |      |      |      |
| Enoree            |               |      |     |   |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      |      |      |
| Florence          | .43           | .10  |     |   |    |    |     |     |     | .20 |     |    |    |     | .40 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.13 |      |
| Georgetown        | .50           | .25  |     |   |    |    |     |     |     |     |     |    |    | .10 | .36 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.21 |      |
| Greenville        | .28           | .62  |     |   |    |    | .09 |     | .08 |     |     |    |    |     | .57 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.94 |      |
| Greenwood         | .14           | .29  |     |   |    |    |     |     |     |     |     |    |    |     | .89 |     | .62 |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .10  | 2.14 |      |
| Heath Spring      | .16           |      |     |   |    |    | .16 |     |     | .22 |     |    |    |     | .66 |     |     |     |     |    |    |     |    |    |    |    |     | .17 | .23 |    |    |        |      | 1.94 |      |
| Kingstree (1)     | .65           | .05  |     |   |    |    | T.  |     |     |     |     |    |    |     | .35 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .40  | 1.60 |      |
| Kingstree (2)     | .67           | .17  |     |   |    |    |     |     |     |     |     |    |    |     | .40 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.05 |      |
| Liberty           | T.            | .80  |     |   |    |    |     |     | .42 |     |     |    |    | .04 | .72 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .50  | 2.78 |      |
| Little Mountain   | .50           | .26  |     |   |    |    | .07 | .03 |     | .04 |     |    |    |     | .50 |     | .22 |     |     |    |    |     |    |    |    |    |     | .30 |     |    |    |        |      | .43  | 2.23 |
| Newberry          | .36           |      |     |   |    |    | .09 |     | .06 | .01 |     |    |    |     | .48 |     | .26 | .25 |     |    |    |     |    |    |    |    |     | .26 |     |    |    |        |      | .32  |      |
| Pelzer            | .42           | .62  |     |   |    |    |     |     |     |     | .08 |    |    |     | .44 |     | .25 |     |     |    |    |     |    |    |    |    |     | .30 | .18 |    |    |        |      | 2.04 |      |
| Pinopolis         |               | 1.00 |     |   |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.00 | 2.00 |
| St. George        | .25           | .30  |     |   |    |    |     |     |     |     |     |    |    |     | .35 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .90  |      |
| St. Matthews      | .48           | .12  |     |   |    |    |     |     |     |     |     |    |    |     | .24 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .84  |      |
| St. Stephens      | .35           | .30  | .03 |   |    |    |     |     |     |     |     |    |    |     | .25 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .95  |      |
| Saluda            |               | .35  |     |   |    |    | .04 |     |     |     |     |    |    |     | .45 |     | .38 |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        | .42  | 1.70 |      |
| Santee            | .05           | .30  |     |   |    |    | .11 |     | .07 |     |     |    |    |     | .77 |     | .37 |     |     |    |    |     |    |    |    |    |     | .11 |     |    |    |        |      | .07  | 2.45 |
| Savannah, Ga.     | T.            | .22  |     |   |    |    |     |     |     |     |     |    |    |     | .13 | T.  |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .16  | 0.51 |
| Smith Mills       | T.            | .50  |     |   |    |    |     |     |     |     |     |    |    |     | .40 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .90  |      |
| Society Hill      | .71           |      |     |   |    |    | .20 |     |     |     |     |    |    |     | .57 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | 1.06 | 2.54 |
| Spartanburg       | T.            |      |     |   |    |    | .20 |     |     | .07 | .05 |    |    | .67 |     |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .13  | 1.21 |
| Summerville       | .51           | .09  |     |   |    |    | T.  | T.  |     |     |     |    |    |     | .24 |     |     |     |     |    |    |     |    |    |    |    |     | .07 | .02 |    |    |        |      | .09  | 0.93 |
| Sumter            |               |      |     |   |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      |      |      |
| Trenton           | .41           |      |     |   |    |    |     |     |     |     |     |    |    |     |     |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      |      |      |
| Trial             |               | .20  |     |   |    |    | .03 |     |     | .02 |     |    |    |     | .43 |     | .28 |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .52  | 1.64 |
| Walhalla          | T.            | 1.60 |     |   |    |    | .15 |     |     | T.  |     |    |    | .15 | .37 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .36  | 0.98 |
| Walterboro        | .49           | .22  |     |   |    |    |     |     |     |     |     |    |    |     | .25 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .55  | 2.83 |
| Wilmington, N. C. | .30           | .12  |     |   | T. |    | .17 | .20 |     | .15 |     |    |    | .26 |     |     | .14 | .01 |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .23  | 1.21 |
| Winnsboro         | .25           |      |     |   |    |    | .50 |     |     |     |     |    |    | .70 |     |     |     | T.  | .02 |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .18  | 1.40 |
| Winthrop College  | .16           | .25  |     |   |    |    | .12 | .11 |     | .19 |     |    |    |     | .64 |     | .03 |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .50  | 1.95 |
| Yemassee          | .40           | .23  | .04 |   |    | T. |     |     |     |     |     |    |    |     | .13 |     |     |     |     |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .68  | 2.18 |
| Yorkville         |               | .33  |     |   |    |    | .10 | .16 |     | .15 |     |    |    |     | .70 |     |     | T.  | T.  |    |    |     |    |    |    |    |     |     |     |    |    |        |      | .55  | 1.99 |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR APRIL, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

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WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

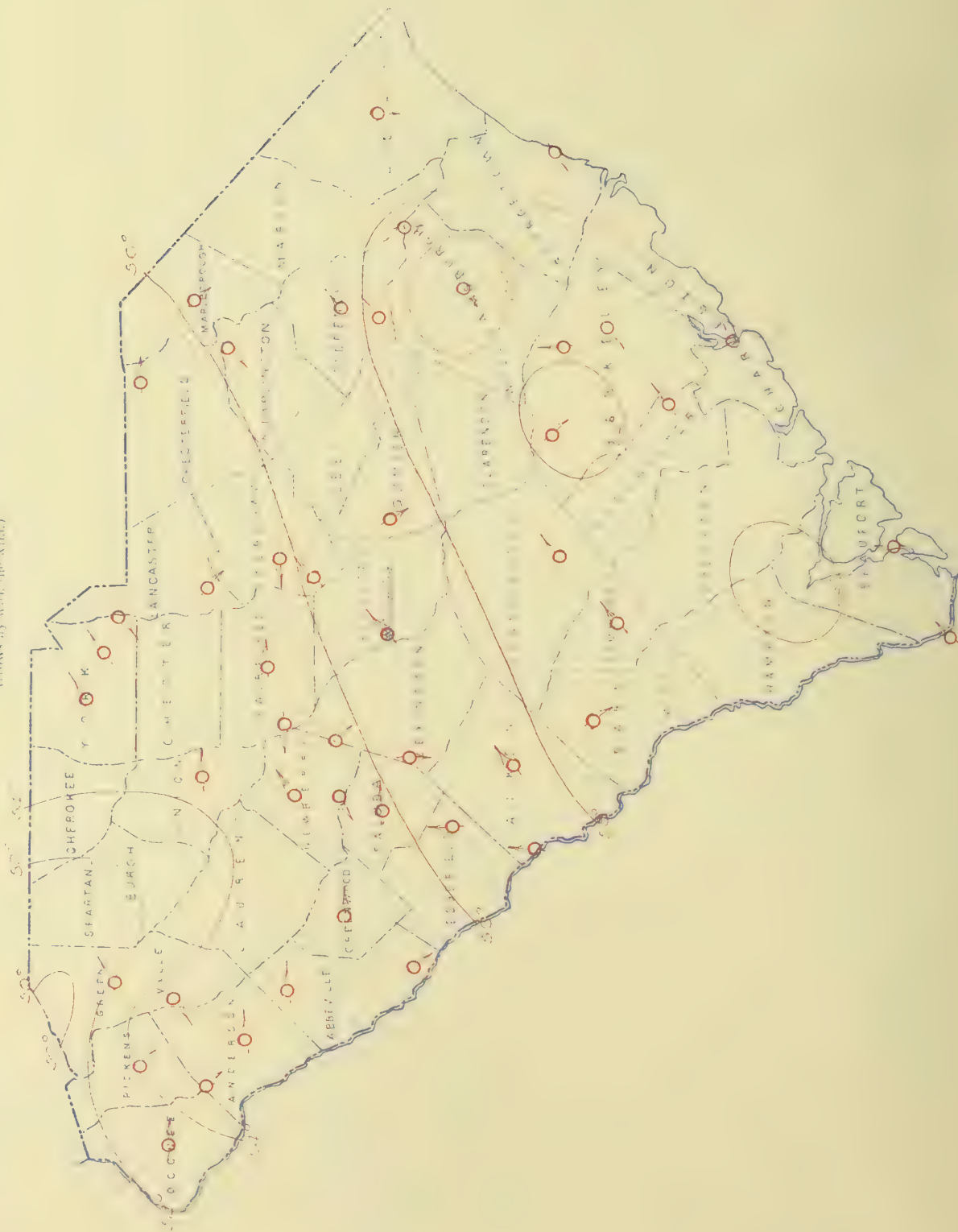
J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

MAY 25, 1907.

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U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. X.

COLUMBIA, S. C., APRIL, 1907.

No. 4.

## GENERAL SUMMARY.

The month ranked as the second coldest of record, owing principally to unusually low temperatures during the first half of the month. The latest killing frost, and thin ice, occurred on the 15th.

The precipitation was slightly below normal in the central counties and was generally above normal in the rest of the State. It was excessive in portions of the southern and eastern portions.

## TEMPERATURE.

The monthly mean temperature for April, 1907, was 56.4°, which is 5.7° below normal. The highest local monthly mean was 60.4° at Kingstree, the lowest was 50.8° at Greenville. The monthly extremes were a maximum of 89° at Blackville on the 26th, and a minimum of 20° at Walhalla on the 11th, making the State range 69°. The greatest local monthly range was 66° at Walhalla, the least was 41° at Charleston. The mean of the daily maximum temperatures was 67.7°, and of the daily minimum temperatures was 45.0°, making the average daily range 22.7°.

## PRECIPITATION.

The average precipitation was 4.40 inches, which is 1.05 inch above normal. The greatest local monthly amount was 9.07 inches at Edisto, the least was 2.40 inches at Winnsboro. The greatest 24-hour rainfall was 3.70 inches at Conway on the 23d. The average number of days with 0.01 of an inch, or more, precipitation was 10, ranging from 4 at Due West to 16 at Charleston, Beaufort, Conway, and Yemassee.

## WIND.

The prevailing direction of the wind was from the southwest at 15 stations, from the northeast, west and northwest at 9 stations, from the south at 4 stations, from the north at 3 stations, and from the east at 2 stations.

**HIGH WINDS.**—High winds were reported as follows: At Anderson on the 12th; at Beaufort on the 2d, 9th; at Bowman on the 1st, 9th, 10th, 12th, 13th, 14th; at Camden on the 8th, 23d; at Charleston on the 2d (50 miles per hour); at Cheraw on the 8th, 9th, 11th, 14th, 23d; at Clarks Hill and Columbia on the 23d (48 miles per hour); at Effingham on the 8th, 20th; at Heath Springs on the 1st, 2d, 23d; at Newberry on the 12th, 13th, 14th, 23d; at Society Hill on the 1st, 2d, 8th, 9th, 10th, 14th, 23d; at Stateburg on the 1st, 2d, 3d, 10th; at

Summerville on the 1st, 2d; at Trial on the 1st, 8th; at Yorkville on the 1st, 2d, 9th, 10th, 13th, 14th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 10, of partly cloudy days was 13, and of cloudy days was 7.

## MISCELLANEOUS PHENOMENA.

**SNOW.**—Trace of snow was noted at Liberty, Spartanburg, and Santuc on the 9th; at Newberry on the 9th, 11th.

**LUNAR HALOS.**—At Charleston, Columbia, Little Mountain on the 25th; at Santuc on the 26th, 27th; at Winthrop College on the 26th.

**SOLAR HALOS.**—At Beaufort on the 5th; at Camden on the 26th; at Charleston on the 25th; at Columbia on the 21st, 26th; at Liberty on the 7th; at Santuc on the 15th, 19th, 21st.

**HAIL.**—Hail was noted at Anderson, Cheraw, Greenville, Newberry, Santuc on the 8th; at Charleston on the 7th; at Liberty on the 8th, 19th, 27th.

**DENSE FOG.**—The following places reported dense fog: Beaufort on the 30th; Camden on the 23d; Charleston on the 18th; Columbia on the 29th; Greenville, Winthrop College on the 8th.

**FROSTS, HEAVY.**—The latest heavy frost occurred at Charleston on the 15th.

**FROSTS, KILLING.**—The latest killing frost of the month occurred as follows: At Anderson, Batesburg, Beaufort, Bennettsville, Blackville, Bowman, Camden, Catawba, Cheraw, Clarks Hill, Dillon, Due West, Effingham, Georgetown, Heath Spring, Little Mountain, Newberry, Saluda, Santuc, Society Hill, Spartanburg, Stateburg, Summerville, Trenton, Trial, Winthrop College, Yorkville on the 15th; at Blairs on the 1st; at Columbia, Greenville on the 14th.

**THUNDERSTORMS.**—Eighty-three thunderstorms were reported with 13 dates of occurrence, as follows: At Anderson on the 8th; at Batesburg on the 8th, 24th; at Beaufort on the 7th, 17th, 18th, 19th, 20th, 23d; at Blackville on the 1st, 8th, 23d; at Bowman on the 1st, 6th, 7th, 8th, 19th, 23d; at Camden on the 8th, 9th, 23d; at Charleston on the 7th, 8th, 17th, 18th, 19th, 23d; at Cheraw, Santuc, Yorkville on the 8th, 19th, 23d; at Columbia on the 7th, 8th, 23d; at Darlington on the 8th, 9th, 19th, 23d; at Due West on the 19th, 22d, 27th; at Greenville on the 8th, 18th; at Liberty on the 8th, 19th; at Little Mountain on the 19th; at Newberry, Society Hill on the 8th, 18th, 23d; at Pinopolis on the 17th, 18th, 19th; at Saluda on the 8th, 23d; at Spartanburg on the 18th; at Stateburg on the 7th, 9th, 22d, 23d; at Summerville on the 7th, 8th, 9th, 19th, 23d; at Trenton on the 7th, 8th, 18th, 23d; at Trial on the 7th, 8th, 23d, 24th; at Winthrop College on the 9th, 19th, 23d.

## BAROMETER AND WIND TABLE FOR APRIL, 1907.

| STATIONS          | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 29.99      | 30.29    | 3     | 29.60   | 8     | 5.801           | 8.1             | 35                | W.         | 5     |
| Charleston        | 29.98      | 30.28    | 3     | 29.50   | 8     | 8.915           | 12.4            | 50                | N.         | 2     |
| Charlotte, N. C.  | 29.98      | 30.34    | 21    | 29.53   | 8     | 6.497           | 8.9             | 42                | SW.        | 23    |
| Columbia          | 29.98      | 30.33    | 21    | 29.56   | 8     | 6.400           | 8.9             | 48                | SW.        | 23    |
| Savannah, Ga.     | 30.00      | 30.27    | 3     | 29.53   | 8     | 6.630           | 9.2             | 35                | N.         | 7     |
| Wilmington, N. C. | 29.98      | 30.32    | 21    | 29.51   | 8     | 7.023           | 9.8             | 33                | W.         | 9     |
| Averages          | 29.98      | 30.34    | 21    | 29.50   | 8     | 6.861           | 9.6             | 48                | SW.        | 23    |



## TEMPERATURE DATA FOR CHARLESTON, S. C.

## Monthly and Annual Mean Temperature.

| Year  | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1871. | 48   | 55   | 64   | 70    | 75   | 83   | 84   | 82   | 72    | 69   | 59   | 48   | 67.4  |
| 1872. | 45   | 48   | 52   | 66    | 76   | 81   | 85   | 82   | 78    | 65   | 54   | 46   | 64.8  |
| 1873. | 48   | 53   | 53   | 66    | 74   | 79   | 82   | 81   | 76    | 64   | 55   | 50   | 65.2  |
| 1874. | 51   | 51   | 60   | 66    | 72   | 81   | 79   | 78   | 75    | 66   | 58   | 52   | 65.6  |
| 1875. | 47   | 49   | 56   | 61    | 71   | 78   | 85   | 79   | 75    | 63   | 60   | 54   | 64.8  |
| 1876. | 56   | 55   | 56   | 65    | 71   | 80   | 84   | 82   | 77    | 62   | 56   | 44   | 65.5  |
| 1877. | 51   | 51   | 56   | 63    | 69   | 80   | 80   | 84   | 77    | 69   | 60   | 54   | 66.2  |
| 1878. | 50   | 52   | 62   | 68    | 74   | 78   | 83   | 83   | 77    | 67   | 57   | 49   | 66.8  |
| 1879. | 50   | 49   | 60   | 63    | 72   | 79   | 83   | 80   | 74    | 70   | 59   | 58   | 66.5  |
| 1880. | 58   | 56   | 63   | 67    | 73   | 80   | 83   | 81   | 75    | 65   | 55   | 48   | 67.1  |
| 1881. | 47   | 52   | 54   | 60    | 73   | 82   | 83   | 81   | 80    | 72   | 60   | 55   | 66.7  |
| 1882. | 55   | 57   | 62   | 67    | 71   | 80   | 82   | 82   | 77    | 70   | 56   | 48   | 67.2  |
| 1883. | 51   | 58   | 54   | 65    | 72   | 81   | 84   | 81   | 75    | 70   | 60   | 56   | 67.2  |
| 1884. | 47   | 61   | 61   | 64    | 76   | 76   | 82   | 79   | 77    | 72   | 60   | 53   | 67.2  |
| 1885. | 47   | 48   | 52   | 64    | 73   | 80   | 82   | 81   | 76    | 65   | 59   | 50   | 65.2  |
| 1886. | 43   | 48   | 54   | 63    | 73   | 78   | 80   | 79   | 77    | 67   | 58   | 49   | 64.0  |
| 1887. | 46   | 58   | 56   | 64    | 73   | 78   | 82   | 80   | 74    | 66   | 56   | 51   | 65.4  |
| 1888. | 51   | 55   | 55   | 67    | 73   | 79   | 80   | 81   | 75    | 66   | 58   | 48   | 65.8  |
| 1889. | 52   | 47   | 55   | 64    | 74   | 77   | 81   | 78   | 76    | 65   | 60   | 60   | 65.6  |
| 1890. | 59   | 61   | 56   | 65    | 73   | 82   | 80   | 80   | 76    | 68   | 61   | 51   | 67.8  |
| 1891. | 50   | 58   | 55   | 65    | 70   | 80   | 80   | 82   | 76    | 64   | 56   | 55   | 66.0  |
| 1892. | 48   | 53   | 55   | 64    | 72   | 78   | 80   | 82   | 75    | 66   | 57   | 52   | 65.1  |
| 1893. | 43   | 50   | 56   | 68    | 72   | 78   | 83   | 79   | 78    | 68   | 58   | 54   | 66.1  |
| 1894. | 53   | 53   | 61   | 65    | 72   | 77   | 79   | 80   | 78    | 68   | 57   | 52   | 66.3  |
| 1895. | 49   | 41   | 56   | 64    | 70   | 79   | 82   | 82   | 78    | 66   | 58   | 51   | 64.7  |
| 1896. | 48   | 52   | 56   | 66    | 77   | 79   | 82   | 81   | 77    | 67   | 63   | 50   | 66.5  |
| 1897. | 47   | 55   | 61   | 66    | 72   | 80   | 82   | 81   | 75    | 70   | 62   | 54   | 67.1  |
| 1898. | 55   | 50   | 62   | 63    | 75   | 80   | 81   | 81   | 78    | 68   | 57   | 51   | 66.8  |
| 1899. | 50   | 49   | 60   | 63    | 75   | 80   | 81   | 83   | 77    | 69   | 61   | 51   | 66.6  |
| 1900. | 50   | 49   | 56   | 66    | 74   | 78   | 83   | 84   | 80    | 70   | 60   | 51   | 66.8  |
| 1901. | 30   | 48   | 57   | 59    | 73   | 77   | 81   | 81   | 77    | 67   | 53   | 49   | 64.2  |
| 1902. | 47   | 44   | 57   | 62    | 75   | 80   | 83   | 80   | 75    | 69   | 63   | 52   | 65.7  |
| 1903. | 48   | 54   | 63   | 63    | 71   | 77   | 81   | 82   | 75    | 66   | 55   | 46   | 65.1  |
| 1904. | 45   | 49   | 51   | 62    | 72   | 77   | 80   | 80   | 77    | 67   | 57   | 50   | 64.6  |
| 1905. | 46   | 45   | 60   | 66    | 76   | 79   | 81   | 79   | 78    | 68   | 58   | 50   | 65.5  |
| 1906. | 51   | 49   | 56   | 66    | 72   | 80   | 80   | 82   | 80    | 68   | 59   | 52   | 66.0  |
| M'ns  | 49.5 | 51.9 | 57.3 | 64.6  | 72.9 | 79.2 | 81.8 | 80.9 | 76.5  | 67.2 | 58.2 | 51.2 | 66.0  |

## Temperature Extremes—36 Years.

| Month.          | Maxi-<br>mum. | Year. | Day. | Mini-<br>mum. | Year. | Day. | Highest<br>Monthly<br>Mean. | Year. | Lowest<br>Monthly<br>Mean. | Year. |
|-----------------|---------------|-------|------|---------------|-------|------|-----------------------------|-------|----------------------------|-------|
| January .....   | 80            | 1879  | 29   | 10            | 1886  | 11   | 59.3                        | 1890  | 42.8                       | 1886  |
| February .....  | 80            | 1891  | 18   | 7             | 1899  | 14   | 61.0                        | 1884  | 41.1                       | 1895  |
| March .....     | 86            | 1897  | 21   | 24            | 1873  | 5    | 65.0                        | 1907  | 50.8                       | 1872  |
| April .....     | 89            | 1896  | 21   | 32            | 1881  | 2    | 69.8                        | 1871  | 58.0                       | 1907  |
| May .....       | 98            | 1898  | 30   | 45            | 1894  | 20   | 76.8                        | 1896  | 68.6                       | 1877  |
| June .....      | 100           | 1880  | 14   | 51            | 1889  | 1    | 82.6                        | 1871  | 75.7                       | 1884  |
| July .....      | 104           | 1879  | 12   | 64            | 1894  | 10   | 85.4                        | 1875  | 78.8                       | 1894  |
| August .....    | 100           | 1899  | 4    | 62            | 1879  | 10   | 84.2                        | 1900  | 77.9                       | 1874  |
| September ..... | 95            | 1899  | 7    | 49            | 1887  | 25   | 80.5                        | 1881  | 72.0                       | 1871  |
| October .....   | 93            | 1883  | 3    | 39            | 1898  | 27   | 72.2                        | 1881  | 62.2                       | 1876  |
| November .....  | 83            | 1899  | 23   | 23            | 1872  | 30   | 63.2                        | 1902  | 53.2                       | 1901  |
| December .....  | 78            | 1889  | 11   | 13            | 1880  | 30   | 60.0                        | 1889  | 43.8                       | 1876  |

## ERRATA.

The following corrections should be made in the February, 1907, number of the Monthly Report: On page 21, Health

Springs, mean temperature, 42.9°, should be 42.8°; and maximum temperature and date, 66° on the 15th, should be 68° on the 19th; Winthrop College, mean temperature, 41.4°, should be 42.8°; Yemassee, maximum and date, 69° on the 25th, should be 74° on the 2d. On page 22, Winthrop College, mean maximum temperature, 50.3, should be 53.0°.

## RIVER GAGE READINGS, APRIL, 1907.

| Stations.            | Mean. | Highest. | Date. | Lowest. | Date. |
|----------------------|-------|----------|-------|---------|-------|
| Blairs .....         | 1.5   | 7.5      | 24    | 0.2     | 12    |
| Calhoun Falls .....  | 3.6   | 8.5      | 23    | 2.2     | 8     |
| Camden .....         | 7.6   | 18.2     | 24    | 4.9     | 1     |
| Catawba .....        | 2.7   | 5.8      | 24    | 1.8     | 21    |
| Chappells .....      | 3.0   | 12.0     | 24    | 1.6     | *6    |
| Cheraw .....         | 6.1   | 20.1     | 25    | 2.4     | 18    |
| Columbia .....       | 2.2   | 8.7      | 24    | 1.0     | 17    |
| Edisto .....         | 3.6   | 5.0      | 27    | 2.2     | 2     |
| Edinburgh .....      | 3.7   | 7.5      | 30    | 2.3     | *5    |
| Kingstree .....      | 4.8   | 7.4      | *29   | 4.0     | *7    |
| Mt. Holly, S.C. .... | 1.9   | 2.6      | 23    | 1.8     | *5    |
| Pelzer .....         | 3.8   | 5.2      | 24    | 2.9     | 12    |
| Runnins .....        | 8.4   | 13.2     | 28    | 6.0     | 16    |
| St. Stephens .....   | 5.6   | 8.6      | 30    | 3.5     | 18    |
| Smith Mills .....    | 8.2   | 12.0     | 30    | 5.0     | *1    |

## REMARKS BY OBSERVERS.

BATESBURG.—The weather was unusually cool up to the 16th, while the latter half of the month was warmer and pleasant. Frost occurred on five mornings; ice and frozen ground on two mornings.—E. J. Hite. BEAUFORT.—The minimum temperature on the 15th was 6° below the coldest recorded in former years in April; the monthly mean temperature was the lowest in the last twenty years, and was 6.9° below the April mean temperature.—Sidney M. Benton. BOWMAN.—Except the last week which was warm and pleasant, the month was cold and disagreeable, with frequent killing frost up to the 15th that did much damage.—B. O. Evans. CAMDEN.—The first half of the month was remarkable for almost continuous fresh to brisk winds and unseasonably low temperatures.—J. B. Mickle. CLARKS HILL.—The month was unusually cold, with killing frost on the 2d and 15th, the latter damaging trees and other vegetation seriously.—Wm. S. Middleton. DILLON.—It was the coldest April of record.—A. E. Rowell. LIBERTY.—The freeze of the 15th denuded many forest trees of their leaves, and damaged vegetation generally. The rainfall for the month was well distributed.—Jno. T. Boggs. NEWBERRY.—A tornado passed over Chappells, in this county, on the 8th,

[CONTINUED ON PAGE 29.]

## COMPARATIVE APRIL DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |                |                |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|----------------|----------------|----------------|--------------------------|----------------------------------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                | Least Monthly. |                |                          |                                  |
|           |              |                  |                  |          |          |                | Amount.           | Place.         | Amount.        | Place.         |                          |                                  |
| 1894..... | 62.6         | 73.2             | 52.0             | 95       | 30       | 2.01           | 6.05              | Cheraw.        | 0.53           | Charleston.    | 6                        | SW.                              |
| 1895..... | 61.4         | 71.6             | 51.5             | 94       | 28       | 5.55           | 9.80              | Stateburg.     | 3.10           | Shaw's Fork.   | 10                       | SW.                              |
| 1896..... | 66.9         | 78.9             | 55.3             | 98       | 30       | 1.31           | 2.46              | Mt. Carmel.    | 0.19           | Yemassee.      | 4                        | SW.                              |
| 1897..... | 62.2         | 73.5             | 50.8             | 95       | 31       | 3.24           | 8.40              | Walhalla.      | 1.41           | Gillisonville. | 9                        | SW.                              |
| 1898..... | 58.0         | 69.4             | 46.7             | 92       | 26       | 5.05           | 7.61              | Edisto.        | 2.50           | Charleston.    | 8                        | SW.                              |
| 1899..... | 60.0         | 70.9             | 49.2             | 91       | 27       | 3.02           | 5.57              | Smiths Mills.  | 1.32           | Winnsboro.     | 7                        | N.                               |
| 1900..... | 62.4         | 73.5             | 51.2             | 90       | 24       | 5.41           | 10.32             | Shaw's Fork.   | 2.35           | Georgetown.    | 9                        | NE.                              |
| 1901..... | 66.0         | 66.5             | 45.4             | 89       | 30       | 5.03           | 10.58             | Yorkville.     | 1.64           | Charleston.    | 7                        | NW.                              |
| 1902..... | 60.4         | 72.0             | 48.8             | 91       | 24       | 2.18           | 3.79              | Santee.        | 0.87           | Walhalla.      | 7                        | W.                               |
| 1903..... | 60.4         | 71.8             | 48.9             | 88       | 26       | 2.95           | 5.55              | Liberty.       | 0.85           | Beaufort.      | 8                        | W.                               |
| 1904..... | 59.2         | 71.7             | 47.3             | 89       | 21       | 1.34           | 2.45              | Liberty.       | 0.17           | Charleston.    | 6                        | SW.                              |
| 1905..... | 62.8         | 74.5             | 51.2             | 92       | 25       | 3.83           | 7.51              | Columbia.      | 2.00           | Barksdale.     | 9                        | SW.                              |
| 1906..... | 65.1         | 78.2             | 52.0             | 93       | 31       | 1.39           | 2.84              | Calhoun Falls. | 0.36           | Darlington.    | 4                        | SW.                              |
| 1907..... | 56.4         | 67.7             | 45.0             | 89       | 20       | 4.40           | 9.07              | Edisto.        | 2.40           | Winnsboro.     | 10                       | SW.                              |



## CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1907.

| STATIONS.                             | COUNTIES.     | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit. |                             |          |         | Precipitation, in inches. |         |       |                        | Sky.   |                             |                        |        | Observations. |                 |                 |                   |                        |
|---------------------------------------|---------------|------------------|--------------------------|-------------------------------------|-----------------------------|----------|---------|---------------------------|---------|-------|------------------------|--------|-----------------------------|------------------------|--------|---------------|-----------------|-----------------|-------------------|------------------------|
|                                       |               |                  |                          | Mean.                               | Deviations from the normal. | Highest. | Lowest. | Date.                     | Lowest. | Date. | Greatest during range. | Total. | Deviations from the normal. | Greatest during range. | Total. |               | Number of days. | Number of days. | Number of days.   | Number of days.        |
| Aiken.                                | Aiken.        | 505              | 23                       | 57.0                                | -6.0                        | 87       | 30      | 29                        | 14      | 36    | 3.15                   | -0.41  | 1.36                        | 0                      | 8      | 16            | 2               | 12              | SW                | C. F. McGeehan, M. D.  |
| Alendale.                             | Barnwell.     | 186              | 10                       | 57.0                                | -7.5                        | 85       | 30      | 25                        | 15      | 40    | 1.29                   | -2.14  | 0.94                        | 0                      | 8      | 19            | 0               | 11              | W.                | A. R. Hines.           |
| Anderson.                             | Anderson.     | 704              | 6                        | 55.0                                | -1.9                        | 81       | 30      | 25                        | 15      | 28    | 3.82                   | -0.48  | 1.55                        | 0                      | 13     | 16            | 2               | 18              | W.                | H. H. Russell.         |
| Augusta, Ga.                          | Richmond.     | 131              | 36                       | 55.8                                | -5.1                        | 84       | 30      | 25                        | 15      | 31    | 3.82                   | -0.48  | 1.55                        | 0                      | 13     | 16            | 2               | 18              | W.                | Weather Bureau.        |
| Barksdale.                            | Laurens.      | 680              | 6                        | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 37    | 1.25                   | +1.20  | 1.54                        | 0                      | 8      | 16            | 2               | 12              | W.                | J. T. Garrett.         |
| Batesburg.                            | Lexington.    | 656              | 19                       | 55.8                                | -6.9                        | 79       | 30      | 26                        | 15      | 37    | 1.25                   | +1.20  | 1.54                        | 0                      | 8      | 16            | 2               | 12              | W.                | E. J. Hines.           |
| Beaufort.                             | Beaufort.     | 20               | 21                       | 59.0                                | -6.9                        | 79       | 30      | 26                        | 15      | 27    | 2.73                   | +0.53  | 1.20                        | 0                      | 8      | 14            | 9               | 12              | W.                | S. M. Benton.          |
| Bennettsville.                        | Marlboro.     | 151              | 6                        | 56.2                                | -5.1                        | 80       | 30      | 26                        | 15      | 35    | 3.71                   | 1.20   | 2.00                        | 0                      | 12     | 13            | 5               | 12              | W.                | C. S. McCall.          |
| Blackville.                           | Barnwell.     | 206              | 19                       | 59.1                                | -4.7                        | 80       | 30      | 26                        | 15      | 41    | 3.50                   | +0.90  | 2.00                        | 0                      | 8      | 9             | 9               | 12              | W.                | G. D. C. Lange.        |
| Blairstown.                           | Fairfield.    | 293              | 2                        | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 3.78                   | 1.60   | 2.00                        | 0                      | 12     | 16            | 7               | 7               | W.                | T. S. McMeekin.        |
| Boysen.                               | Orangeburg.   | 103              | 6                        | 58.7                                | -5.1                        | 87       | 30      | 26                        | 15      | 38    | 7.52                   | 1.90   | 0.96                        | 0                      | 5      | 17            | 0               | 13              | W.                | B. O. Evans.           |
| Calhoun Falls.                        | Abbeville.    | 508              | 14                       | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 3.04                   | -0.71  | 0.96                        | 0                      | 5      | 17            | 0               | 13              | W.                | P. J. Pfeiffer.        |
| Camden (1).                           | Kershaw.      | 2                | 2                        | 55.5                                | -5.1                        | 84       | 30      | 24                        | 15      | 38    | 2.72                   | 1.36   | 0.50                        | 0                      | 11     | 16            | 14              | 6               | W.                | J. B. McKee.           |
| Camden (2).                           | Kershaw.      | 222              | 41                       | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 2.72                   | -0.55  | 0.50                        | 0                      | 9      | 12            | 4               | 12              | W.                | W. C. Brown.           |
| Catawba.                              | York.         | 2                | 2                        | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 2.72                   | 1.64   | 0.50                        | 0                      | 6      | 12            | 5               | 13              | W.                | James Y. Brice.        |
| Chapell's.                            | Newberry.     | 402              | 2                        | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 2.72                   | 1.64   | 0.50                        | 0                      | 9      | 17            | 6               | 7               | W.                | J. A. McLean.          |
| Charleston.                           | Charleston.   | 48               | 38                       | 58.0                                | -5.8                        | 87       | 30      | 26                        | 15      | 23    | 3.72                   | +0.14  | 1.33                        | 0                      | 16     | 8             | 13              | 9               | W.                | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg.  | 808              | 29                       | 52.8                                | -6.4                        | 81       | 29      | 28                        | 15      | 32    | 2.57                   | -0.07  | 1.13                        | 0                      | 9      | 6             | 14              | 10              | W.                | Weather Bureau.        |
| Cheraw (1).                           | Chesterfield. | 144              | 19                       | 55.0                                | -6.6                        | 85       | 30      | 28                        | 15      | 35    | 1.00                   | +1.72  | 1.13                        | 0                      | 11     | 12            | 4               | 14              | W.                | W. R. Godfrey.         |
| Cheraw (2).                           | Chesterfield. | 144              | 14                       | 55.0                                | -6.6                        | 85       | 30      | 28                        | 15      | 35    | 1.00                   | +1.72  | 1.13                        | 0                      | 11     | 12            | 4               | 14              | W.                | Jno. H. Powe.          |
| Chicks Hill.                          | Edgefield.    | 500              | 5                        | 56.0                                | -5.1                        | 85       | 30      | 27                        | 15      | 37    | 3.65                   | +1.36  | 1.14                        | 0                      | 13     | 12            | 8               | 10              | W.                | Wm. S. Middleton.      |
| Chenoweth College.                    | Oconee.       | 850              | 16                       | 54.8                                | -4.4                        | 79       | 30      | 27                        | 15      | 43    | 4.67                   | 1.45   | 0                           | 7                      | 16     | 5             | 9               | SW.             | Jno. N. Hook.     |                        |
| Columbia.                             | Richland.     | 351              | 20                       | 56.9                                | -5.9                        | 85       | 30      | 29                        | 15      | 36    | 2.61                   | -0.17  | 1.71                        | 0                      | 11     | 6             | 13              | 11              | W.                | Central Office.        |
| Conway.                               | Horry.        | 25               | 15                       | 56.7                                | -5.1                        | 83       | 30      | 27                        | 15      | 42    | 3.79                   | +5.05  | 3.70                        | 0                      | 16     | 13            | 1               | 16              | W.                | P. C. Quattlebaum.     |
| Darlington.                           | Darlington.   | 175              | 12                       | 56.6                                | -5.1                        | 88       | 29      | 25                        | 15      | 43    | 3.94                   | -0.40  | 2.05                        | 0                      | 10     | 13            | 1               | 16              | W.                | D. C. McCall.          |
| Dillon.                               | Marion.       | 100              | 3                        | 55.7                                | -5.1                        | 80       | 30      | 24                        | 15      | 38    | 3.24                   | 1.49   | 0                           | 9                      | 17     | 2             | 11              | W.              | A. E. Rowell.     |                        |
| Due West.                             | Abbeville.    | 730              | 6                        | 55.6                                | -5.1                        | 81       | 30      | 25                        | 15      | 35    | 9.07                   | +5.26  | 2.93                        | 0                      | 9      | 17            | 2               | 11              | W.                | Rev. O. Y. Bonner.     |
| Edisto.                               | Barnwell.     | 127              | 14                       | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 5.13                   | +2.15  | 2.48                        | 0                      | 7      | 16            | 1               | 13              | W.                | Mrs. M. Thompson.      |
| Edinburgh.                            | Florence.     | 106              | 15                       | 56.1                                | -5.9                        | 87       | 30      | 26                        | 15      | 46    | 4.35                   | +1.04  | 1.67                        | 0                      | 9      | 10            | 4               | 16              | W.                | H. B. McCall.          |
| Florence.                             | Florence.     | 136              | 19                       | 56.1                                | -5.9                        | 87       | 30      | 26                        | 15      | 46    | 4.35                   | +1.04  | 1.67                        | 0                      | 9      | 10            | 4               | 16              | W.                | H. K. Gilbert.         |
| Georgetown.                           | Georgetown.   | 12               | 14                       | 57.8                                | -5.2                        | 80       | 30      | 30                        | 15      | 35    | 6.03                   | +2.71  | 1.63                        | 0                      | 10     | 17            | 11              | 2               | W.                | Reid Whitford.         |
| Greenville.                           | Greenville.   | 980              | 15                       | 50.8                                | -6.9                        | 79       | 30      | 22                        | 14      | 43    | 3.37                   | -1.04  | 1.68                        | 0                      | 10     | 12            | 6               | 12              | W.                | Mrs. S. A. Crittenden. |
| Greenwood.                            | Greenwood.    | 671              | 19                       | 51.6                                | -6.5                        | 83       | 30      | 29                        | 15      | 36    | 3.52                   | -0.39  | 1.90                        | 0                      | 7      | 18            | 0               | 12              | W.                | M. M. Calhoun.         |
| Heath Spring.                         | Lancaster.    | 568              | 6                        | 56.5                                | -5.1                        | 85       | 30      | 21                        | 15      | 28    | 4.52                   | 1.36   | 0                           | 9                      | 8      | 15            | 7               | W.              | J. A. Weaver.     |                        |
| Kingstree (1).                        | Williamsburg. | 54               | 19                       | 60.4                                | -2.5                        | 84       | 30      | 39                        | 21      | 60.4  | +3.35                  | 2.40   | 0                           | 11                     | 14     | 5             | 11              | W.              | J. A. Scott.      |                        |
| Kingstree (2).                        | Williamsburg. | 54               | 13                       | 60.4                                | -2.5                        | 84       | 30      | 39                        | 21      | 60.4  | +3.35                  | 2.40   | 0                           | 11                     | 14     | 5             | 11              | W.              | A. O. Matthews.   |                        |
| Liberty.                              | Pickens.      | 900              | 13                       | 55.0                                | -5.0                        | 82       | 30      | 22                        | 15      | 41    | 4.81                   | +2.42  | 2.55                        | 0                      | 7      | 13            | 3               | 14              | W.                | Jno. T. Boggs.         |
| Little Mountain.                      | Newberry.     | 630              | 14                       | 55.5                                | -6.7                        | 84       | 30      | 27                        | 15      | 33    | 3.83                   | -0.60  | 1.60                        | 0                      | 11     | 7             | 18              | 5               | W.                | John M. Sease, M. D.   |
| Newberry.                             | Newberry.     | 502              | 3                        | 56.5                                | -4.9                        | 86       | 30      | 24                        | 15      | 41    | 3.26                   | -1.16  | 1.70                        | 0                      | 12     | 6             | 13              | 11              | W.                | W. G. Peterson.        |
| Polzer.                               | Anderson.     | 873              | 2                        | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 5.60                   | 2.00   | 0                           | 10                     | 17     | 4             | 9               | W.              | John M. Ward.     |                        |
| Poplar.                               | Berkeley.     | 54               | 14                       | 58.3                                | -3.7                        | 80       | 30      | 31                        | 15      | 43    | 4.37                   | +0.86  | 1.50                        | 0                      | 11     | 14            | 5               | 11              | W.                | E. P. Ravenel.         |
| St. George.                           | Dorchester.   | 109              | 19                       | 58.9                                | -4.7                        | 84       | 30      | 31                        | 15      | 32    | 5.50                   | +2.30  | 1.42                        | 0                      | 12     | 16            | 0               | 14              | W.                | G. T. Lewis.           |
| St. Matthews.                         | Orangeburg.   | 269              | 19                       | 56.4                                | -7.6                        | 83       | 30      | 30                        | 15      | 32    | 5.38                   | +1.76  | 2.50                        | 0                      | 8      | 18            | 0               | 12              | W.                | J. S. Wainmaker.       |
| St. Stephen.                          | Berkeley.     | 73               | 15                       | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 6.65                   | +3.57  | 1.90                        | 0                      | 15     | 13            | 2               | 15              | W.                | C. T. Shuler.          |
| Saluda.                               | Saluda.       | 536              | 6                        | 56.0                                | -5.1                        | 85       | 30      | 21                        | 15      | 44    | 3.16                   | 1.00   | 1.54                        | 0                      | 8      | 18            | 5               | 7               | W.                | Alvin Etheridge.       |
| Santee.                               | Union.        | 512              | 13                       | 54.5                                | -5.4                        | 83       | 29      | 24                        | 15      | 39    | 4.78                   | +0.78  | 1.92                        | 0                      | 14     | 7             | 14              | 9               | W.                | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham.      | 71               | 38                       | 60.0                                | -4.7                        | 82       | 23      | 36                        | 14      | 27    | 4.07                   | +0.60  | 0.90                        | 0                      | 11     | 9             | 10              | 11              | W.                | Weather Bureau.        |
| Seaford.                              | Williamsburg. | 62               | 12                       | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 7.80                   | +3.78  | 2.40                        | 0                      | 14     | 14            | 2               | 14              | W.                | H. van Keuren.         |
| Society Hill.                         | Darlington.   | 102              | 16                       | 56.0                                | -6.3                        | 83       | 30      | 28                        | 14      | 35    | 2.66                   | -1.57  | 1.36                        | 0                      | 9      | 10            | 11              | 9               | W.                | J. J. Lucas.           |
| Spartanburg.                          | Spartanburg.  | 875              | 16                       | 53.7                                | -6.7                        | 83       | 29      | 22                        | 15      | 44    | 3.72                   | -0.44  | 2.10                        | 0                      | 8      | 12            | 1               | 17              | W.                | F. P. Robinson.        |
| Stateburg.                            | Sumter.       | 500              | 30                       | 58.0                                | -4.8                        | 86       | 30      | 30                        | 15      | 33    | 3.38                   | +0.29  | 1.70                        | 0                      | 6      | 5             | 13              | 12              | W.                | W. W. Anderson, M. D.  |
| Summerville.                          | Dorchester.   | 75               | 10                       | 59.2                                | -3.4                        | 86       | 30      | 28                        | 15      | 40    | 5.35                   | +2.21  | 1.34                        | 0                      | 13     | 6             | 11              | 13              | W.                | Miss E. H. Gadsden.    |
| Sumter.                               | Sumter.       | 169              | 6                        | 57.0                                | -6.7                        | 80       | 30      | 26                        | 15      | 38    | 3.62                   | 0.16   | 1.45                        | 0                      | 6      | 6             | 11              | 13              | W.                | T. M. Bradley.         |
| Trenton.                              | Edgefield.    | 620              | 14                       | 56.3                                | -8.4                        | 85       | 30      | 30                        | 14      | 34    | 3.51                   | -0.62  | 1.31                        | 0                      | 6      | 9             | 18              | 3               | W.                | C. A. Long.            |
| Trial.                                | Berkeley.     | 85               | 21                       | 57.4                                | -4.5                        | 85       | 30      | 26                        | 15      | 38    | 5.05                   | +2.48  | 2.05                        | 0                      | 11     | 6             | 15              | 9               | W.                | Elsell Gaillard.       |
| Walhalla.                             | Oconee.       | 1061             | 16                       | 53.4                                | -6.1                        | 86       | 30      | 20                        | 11      | 35    | 5.67                   | -0.03  | 2.30                        | 0                      | 7      | 4             | 24              | 1               | W.                | Miss Jessie Douthit.   |
| Walterboro.                           | Colleton.     | 69               | 4                        | 59.5                                | -5.1                        | 86       | 30      | 28                        | 15      | 36    | 4.08                   | 0.74   | 0                           | 12                     | 13     | 11            | 6               | W.              | J. A. Westerberg. |                        |
| Wilmington, N. C.                     | New Hanover.  | 52               | 38                       | 55.1                                | -5.3                        | 80       | 30      | 32                        | 15      | 31    | 4.29                   | +1.33  | 2.24                        | 0                      | 10     | 7             | 16              | 7               | W.                | Weather Bureau.        |
| Winnabow.                             | Fairfield.    | 545              | 18                       | 54.7                                | -6.3                        | 84       | 30      | 27                        | 15      | 34    | 2.40                   | -0.53  | 0.50                        | 0                      | 8      | 16            | 13              | 1               | W.                | John W. Seigler.       |
| Wintrop College.                      | York.         | 690              | 8                        | 53.9                                | -7.5                        | 81       | 30      | 25                        | 14      | 37    | 3.36                   | 0      | 1.44                        | 0                      | 9      | 15            | 10              | 5               | W.                | E. R. Rivers.          |
| Yemassee.                             | Beaufort.     | 23               | 12                       | 57.4                                | -6.6                        | 84       | 30      | 28                        | 3       | 32    | 4.05                   | +0.98  | 0.62                        | 0                      | 16     | 11            | 5               | 14              | W.                | J. G. Hutson.          |
| Yorkville.                            | York.         | 680              | 19                       | 55.8                                | -5.8                        | 86       | 30      | 27                        | 15      | 39    | 3.62                   | 0.16   | 1.45                        | 0                      | 6      | 6             | 11              | 13              | W.                | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. |               |                  |                          | 56.4                                | -5.7                        | 89       | 26      | 20                        | 11      | 46    | 4.40                   | +1.05  | 3.70                        | T.                     | 10     | 10            | 13              | 7               | SW.               |                        |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also a indicates 1 day missing, b, 2 days, etc. The state of sky at 8 a. m. not used in averages.

[CONTINUED FROM PAGE 28.]

doing slight damage. There was killing frost, ice, and a slight ground freeze on the 15th.—W. G. Peterson. **SANTEE.**—The month was much colder than March, with a number of killing frosts that damaged vegetation. The month had well distributed and copious rainfall.—E. W. Jeter. **STATEBURG.**—The temperature was much below normal, and there were unusually high winds; on the 1st, 2d, and 3d the winds did as much, or more, damage than the frosts would have done that they prevented.—W. W. Anderson, M. D. **SOCIETY HILL.**—There was a disastrous freeze on the 15th, which date was the 58th anniversary of the great snow storm and freeze in 1849 which destroyed all vegetation even kill-

ing grapevines to the ground.—Maj. J. J. Lucas. **SUMMERVILLE.**—An earthquake was felt at 3.30 a. m. on the 19th. High winds prevailed on the 1st and 2d, and ice formed on the 3d that damaged vegetation seriously. The minimum of 28° on the 15th is the lowest temperature on record for April, the previous lowest having been 33°.—Miss E. H. Gadsden. **TRENTON.**—Frequent killing frosts and ground freeze on the 14th did much damage to vegetation, especially to fruit trees. The precipitation since January 1st is 7.49 inches less than the average for the first four months of the year.—U. A. Long. **YORKVILLE.**—The weather was unusually cold; the frost did great harm to vegetables, grapevines and fruit trees.—J. R. Schorb.



STATIONS

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.  
+ The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.

+ The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR APRIL, 1907.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1907.

| STATIONS.         | Day of Month. |     |   |     |     |      |      |      |     |     |      |     |    |    |     |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     | Total. |
|-------------------|---------------|-----|---|-----|-----|------|------|------|-----|-----|------|-----|----|----|-----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|--------|
|                   | 1             | 2   | 3 | 4   | 5   | 6    | 7    | 8    | 9   | 10  | 11   | 12  | 13 | 14 | 15  | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25  | 26  | 27  | 28  | 29  | 30  | 31  |        |
| Aiken             |               |     |   |     | .20 |      |      | .50  |     |     | 1.00 |     |    |    |     | .30  | .40  |      |      |      |      | 1.30 | .45  |      |     |     |     |     |     |     |     | 3.15   |
| Allendale         | .90           |     |   |     |     | .16  |      | .64  |     |     | .30  |     |    |    |     |      | .85  |      | .35  |      |      | .25  | .94  |      |     |     |     |     |     |     |     | 4.39   |
| Anderson          | .10           |     |   |     |     | .27  | .06  | .15  |     |     |      |     |    |    |     | .12  |      |      |      | 1.77 |      | 2.09 | .60  |      |     |     |     |     |     |     |     |        |
| Augusta, Ga.      | .07           |     |   |     | .06 | .01  | .80  | .16  |     |     | .19  | .04 |    |    |     | .24  | .55  | .05  | .01  |      |      | 1.47 | .17  |      |     |     | T.  |     | .36 |     |     | 3.82   |
| Barksdale         |               |     |   |     |     |      |      |      |     |     |      |     |    |    |     |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |        |
| Batesburg         | .74           |     |   |     |     | T.   |      | .74  | .28 |     |      |     |    |    |     | T.   | .57  | .04  | T.   |      |      | .04  | 1.53 | .31  |     |     |     |     |     |     |     | 4.25   |
| Beaufort          | .77           |     |   |     | .09 | .04  | .36  |      |     | T.  |      | .41 |    |    |     | .21  | .13  | .01  | .65  | .27  | .42  | .14  | .08  |      |     | .08 | .06 |     |     | .01 |     | 3.73   |
| Bennettsville     | .57           |     |   |     |     | .16  | .17  | .32  |     |     |      |     |    |    |     |      |      | .12  |      | .65  |      |      |      | 1.20 | .55 |     |     |     |     |     |     | 3.74   |
| Blackville        | .50           |     |   |     | .10 |      | .12  | .08  |     |     | .52  |     |    |    |     | .04  | .68  | .04  | .21  |      |      | .10  | 2.00 | .11  |     |     |     |     |     |     | .01 | 4.50   |
| Blairs            | .62           |     |   |     |     |      |      | .06  | .10 |     | .06  |     |    |    |     |      |      |      | .66  |      |      | 2.00 | .20  |      |     |     |     |     |     | .04 |     | 3.78   |
| Bowman            | 1.09          |     |   |     | .30 | .18  | .98  | .12  |     | .10 | .22  |     |    |    |     | .15  | .44  |      | .30  |      |      | 1.80 | 1.90 |      |     | .04 |     |     |     |     |     | 7.52   |
| Calhoun Falls     | .59           |     |   |     |     |      |      | .40  |     |     |      | .32 |    |    |     |      |      |      |      |      |      | .84  | .96  |      |     |     |     |     |     |     |     | 3.40   |
| Camden (1)        | .20           |     |   |     | .05 | .09  | .17  |      |     |     | .12  |     |    |    |     | .04  | .23  |      | .44  |      |      | 1.36 | .31  |      |     |     | .03 |     |     |     |     | 3.04   |
| Camden (2)        | .50           |     |   |     |     |      | .22  | .36  |     |     | .12  |     |    |    |     |      |      | .26  |      |      |      | .08  | .46  | .26  |     |     |     |     |     |     |     | 2.72   |
| Catawba           | .80           |     |   |     |     | T.   |      |      | .20 |     |      |     |    |    |     |      |      | T.   | .72  |      |      |      |      | 1.64 | .26 |     |     | .74 |     |     |     | 4.36   |
| Chappells         | .56           |     |   |     |     | .14  | .18  | .08  |     |     | .22  | T.  |    |    |     | T.   |      |      | .20  |      |      | .44  | 1.92 |      |     |     | .04 |     |     |     |     | 3.78   |
| Charleston        | .66           |     |   |     | .04 | 1.14 | .21  |      |     | .04 | .26  |     |    |    |     | .03  | .40  | .02  | .43  | .04  | .11  | .06  | .21  |      |     | .05 | .02 |     |     |     |     | 3.72   |
| Charlotte, N. C.  | .03           |     |   | .01 | .05 | T.   | .03  |      |     |     | T.   | T.  |    |    |     | T.   | .17  | .38  |      |      |      | 1.36 | .32  |      |     | T.  | .22 | T.  |     |     |     | 2.57   |
| Cheraw (1)        | .49           |     |   |     | .10 | .42  | .10  | .42  |     |     | T.   | T.  |    |    |     |      |      | .12  | 1.27 | .01  |      | .06  | 1.33 | .27  |     |     |     |     |     |     |     | 4.99   |
| Cheraw (2)        | .96           |     |   |     | .09 | .51  | .10  | .48  |     |     | .01  | T.  |    |    |     | .16  | .40  | T.   | .08  | 1.32 | .01  | .05  | 1.34 | .24  |     |     |     |     |     |     |     | 5.21   |
| Clark's Hill      |               |     |   |     | .24 | T.   | .75  |      |     |     | .49  |     |    |    | .16 | .40  | T.   |      |      |      | 1.45 | .16  |      |      |     |     |     |     |     |     |     | 3.65   |
| Clemson College   |               |     |   |     | .37 | .05  | .08  |      |     |     | .18  |     |    |    | .07 |      |      | .57  |      |      |      | 1.63 | 1.47 |      |     |     |     | .25 |     |     |     | 4.67   |
| Columbia          | .09           |     |   |     | T.  |      | .35  | .03  |     | .04 | .07  |     |    |    | .01 | .05  | T.   |      |      |      |      | 1.69 | .22  |      |     | .04 | .02 |     |     |     |     | 2.61   |
| Conway            | 1.00          | .29 |   |     | .05 | .15  | .85  | .20  |     | .10 |      |     |    |    |     | .25  | .30  | .05  |      | .10  | .30  | .40  |      |      | .30 | .10 |     |     |     |     |     | 7.89   |
| Darlington        |               |     |   |     |     | .60  | .22  | .30  |     | .10 |      |     |    |    |     | .09  | .14  | .30  |      |      |      | .07  | 2.05 | .07  |     |     |     |     |     |     |     | 3.94   |
| Dillon            | .01           |     |   |     | .07 | T.   | .30  |      |     |     |      |     |    |    |     | T.   | .38  | .02  | .10  |      |      | 1.49 | .85  |      |     |     |     |     |     |     |     | 3.24   |
| Due West          |               |     |   |     |     | T.   | .30  |      |     |     |      |     |    |    |     |      |      |      | .62  |      |      | 2.00 |      |      |     | .19 |     |     |     |     |     | 3.14   |
| Edisto            |               |     |   |     | .59 | .15  | 1.10 |      |     |     | .57  |     |    |    |     | 1.34 | .63  | 1.03 |      |      |      | .73  | 2.93 |      |     |     |     |     |     |     |     | 9.07   |
| Effingham         | .95           |     |   |     |     | T.   | .15  | .40  |     |     | T.   |     |    |    |     | .15  | .50  |      |      |      |      | 2.48 | .50  |      |     |     |     |     |     |     |     | 5.13   |
| Florence          | 1.15          |     |   |     |     | T.   | .10  | .40  | .10 |     | .12  |     |    |    |     | .10  | .42  |      |      |      |      | .04  | 1.67 | .35  |     |     |     |     |     |     |     | 4.35   |
| Georgetown        | 1.63          | .10 |   |     |     | T.   | .95  | 1.10 |     | .10 |      |     |    |    |     | T.   | .44  | T.   | .12  | T.   |      | .09  | .10  |      |     | .53 |     |     |     |     |     | 6.03   |
| Greenville        | .60           |     |   |     | .24 | T.   | .05  | .10  |     | .02 |      |     |    |    |     | T.   | T.   |      |      |      |      | .12  | 1.68 | .05  |     | .08 |     |     |     |     |     | 3.37   |
| Greenwood         | .82           |     |   |     |     |      |      | .10  |     |     | .14  |     |    |    |     |      |      | .06  |      |      |      | .15  | 1.90 |      |     | .35 |     |     |     |     |     | 3.52   |
| Heath Spring      |               |     |   |     | .22 | .07  | .22  |      |     |     | T.   |     |    |    |     | .25  | 1.36 | .85  |      |      |      | .18  | 1.32 |      |     | .05 |     |     |     |     |     | 4.52   |
| Kingstree (1)     | 1.15          | .03 |   |     |     | T.   |      | .85  | .28 |     | .12  |     |    |    |     | T.   | .40  | .12  |      | T.   |      | .12  | 2.40 | .52  |     |     | .05 |     |     |     |     | 6.04   |
| Kingstree (2)     | 1.30          |     |   |     |     |      | .90  | .30  |     | .12 |      |     |    |    |     | T.   | .35  |      |      |      |      | .20  | 2.55 |      |     |     |     |     |     |     |     | 5.72   |
| Liberty           | .15           |     |   |     | .15 | .15  | .19  |      |     |     | .17  |     |    |    | .05 | .19  |      | .93  |      |      |      | 1.60 | .25  |      | .10 | .05 |     |     |     |     |     | 4.81   |
| Little Mountain   |               |     |   |     | .07 | .03  | .18  | .11  | T.  | .18 |      |     |    |    | .04 | .05  | .74  |      |      |      | .08  | 1.70 | .05  |      | .03 |     |     |     |     |     |     | 3.26   |
| Newberry          | .80           |     |   |     | .40 |      | .20  |      |     | .10 |      |     |    |    | .04 |      | .13  |      |      |      |      | .20  | 2.00 |      | .18 | .32 |     |     |     |     |     | 5.60   |
| Pelzer            | .41           |     |   |     | .15 | .60  | .20  |      | .15 |     | .53  |     |    |    |     | .10  | .10  | .13  |      |      |      | 1.50 | .50  |      |     |     |     |     |     |     |     | 1.37   |
| Pinopolis         | .20           |     |   |     | .12 | 1.42 | .03  |      | .42 |     |      |     |    |    | .02 | .51  | .05  | .86  |      |      |      | .16  | 1.28 | .43  |     |     |     |     |     |     |     | 5.50   |
| St. George        |               |     |   |     | .05 |      | 1.00 | .18  |     |     | .16  |     |    |    |     | .53  | .05  |      |      |      |      | .07  | 2.50 |      |     |     |     |     |     |     |     | 5.38   |
| St. Matthews      | 1.00          |     |   |     | .41 |      | 1.22 | .27  |     |     | .22  |     |    |    |     | .05  | .08  |      |      |      |      | 1.54 | .28  |      |     |     |     |     |     |     |     | 6.65   |
| St. Stephens      | 1.10          | .06 |   |     |     | T.   | .32  | .31  |     | T.  |      |     |    |    |     | T.   | .02  |      | 1.60 |      |      | 1.92 | .73  |      |     | T.  | T.  |     | .10 |     |     | 3.16   |
| Saluda            | .06           |     |   |     |     | T.   | .09  | .16  |     |     |      |     |    |    |     | T.   | .12  | .32  | .18  | .23  | .31  | .07  | .02  |      |     | .71 | .02 |     |     |     |     | 4.78   |
| Santuc            | .16           |     |   |     | .12 | .52  | .05  |      | T.  | .48 |      |     |    |    |     | .15  | .25  | .20  | .10  | T.   |      | .12  | 2.40 | 1.75 |     | .23 |     |     |     |     |     | 4.07   |
| Savannah, Ga.     | .92           |     |   |     |     | .30  | .90  | .20  |     | .10 |      |     |    |    |     | .03  |      | .45  |      |      | .08  | 1.36 | .27  |      |     |     |     |     |     |     |     | 7.80   |
| Smith Mills       | .90           | .20 |   |     | .05 |      | .21  | .15  |     | .05 |      |     |    |    |     | .03  |      | .45  |      |      |      | 1.36 | .27  |      |     |     |     |     |     |     |     | 2.66   |
| Society Hill      |               |     |   |     | .45 | .08  | T.   | .15  |     |     |      |     |    |    |     | .26  | T.   |      |      |      |      | 1.2  | 2.10 | .12  |     | .12 |     |     |     |     |     | 3.72   |
| Spartanburg       |               |     |   |     | .56 |      | .07  |      | .17 |     |      |     |    |    |     | .05  | .51  | .03  | .55  |      | T.   | .69  | .10  |      |     | T.  | .06 |     |     |     |     | 3.38   |
| Stateburg         |               |     |   |     | .09 | .35  | .81  | .23  |     | .47 |      |     |    |    |     |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     | 5.38   |
| Summerville       | 1.34          |     |   |     |     |      | .76  |      |     | .43 |      |     |    |    | .09 |      | .39  |      | T.   |      |      | 1.31 | .53  |      |     | T.  |     |     |     |     |     | 3.51   |
| Sumter            |               |     |   |     | .10 | 1.25 | .18  |      | .21 |     |      |     |    |    |     | .40  | .16  | .03  | .19  |      | T.   | 1.89 | .27  |      |     | T.  | T.  |     |     |     |     | 5.05   |
| Trenton           | .37           |     |   |     |     |      | .21  |      |     | .25 |      |     |    |    |     | T.   |      | .72  |      |      |      | 2.30 | 1.25 |      |     |     |     | .57 |     |     |     | 5.67   |
| Walhalla          | .38           |     |   |     | .22 | .06  | .74  | .32  |     | .36 |      |     |    |    |     | .12  | .58  |      | .31  |      |      | .21  | .21  |      |     | T.  | .03 |     |     |     |     | 4.08   |
| Walterboro        | .67           | .01 |   |     | .05 | .53  | .27  |      | .03 |     |      |     |    |    |     | .28  | .45  | .10  |      |      |      | 1.47 | .92  |      |     |     | .05 |     |     |     |     | 4.29   |
| Wilmington, N. C. |               |     |   |     | T.  | .10  | .30  |      | .17 |     |      |     |    |    |     |      |      |      |      |      |      |      |      |      | .20 |     |     | .50 |     |     |     | 2.40   |
| Winnboro          |               |     |   |     | .18 | .05  | .02  | .10  |     | T.  |      |     |    |    |     |      |      |      |      |      |      | 1.44 | .65  |      |     |     | .05 |     |     |     |     | 3.36   |
| Winthrop College  | .13           |     |   |     | .16 |      | .62  | .09  |     | .58 | .02  |     |    |    |     | .02  | .58  | .04  | .60  | .14  |      | .17  | .04  | .47  |     |     | .05 |     |     |     |     | 4.05   |
| Yemassee          | .40           | .07 |   |     |     |      |      |      |     |     |      |     |    |    |     |      |      |      |      |      |      | 1.45 | .82  |      |     |     |     |     |     |     |     | 3.62   |
| Yorkville         | .15           |     |   |     | .15 | T.   | .17  |      |     |     |      |     |    |    |     |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |        |

T. indicates trace, less than . or inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MAY, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

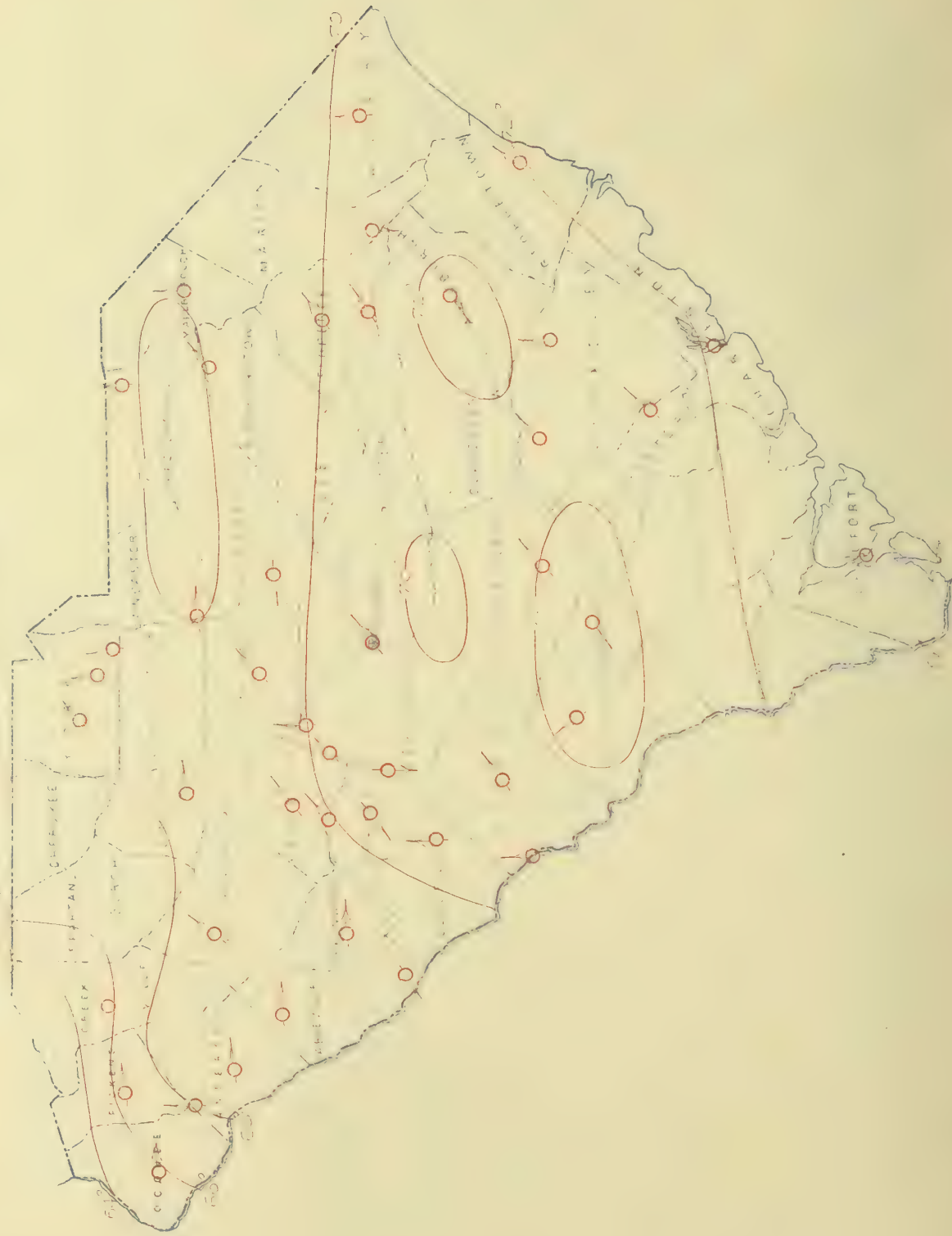


RALEIGH, N. C.  
WEATHER BUREAU OFFICE

JUNE 25, 1907.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR MAY 1967

TEMPERATURE IN °F





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. X. COLUMBIA, S. C., MAY, 1907.

No. 5.

## GENERAL SUMMARY.

The mean temperature was below normal, due largely to low maximum temperatures thruout the month. The mean of the daily maximum temperatures was the second lowest of record, while the mean of the daily minimum temperatures was slightly above the average of the last 14 years. The highest maximum and the lowest minimum were well within the limits of previously recorded extremes.

The precipitation was well distributed geographically, all portions of the State having received ample moisture and only a comparatively small area in the south central portion having received an excessive amount.

There was a marked deficiency in bright sunshine, and, with one exception, the month had the smallest number of clear days of any previous May of record.

## TEMPERATURE.

The mean temperature for May, 1907, was  $70.8^{\circ}$ , which is  $1.4^{\circ}$  below normal. The highest local mean was  $73.1^{\circ}$  at Kingstree, the lowest was  $64.2^{\circ}$  at Greenville. The monthly extremes were a maximum of  $96^{\circ}$  at Little Mountain on the 20th and a minimum of  $41^{\circ}$  at Dillon on the 22d, making the State range  $55^{\circ}$ . The greatest local monthly range was  $51^{\circ}$  at Darlington, the least was  $29^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $80.8^{\circ}$ , and of the daily minimum temperatures was  $60.8^{\circ}$ , making the average daily range  $20^{\circ}$ .

## PRECIPITATION.

The average precipitation was 4.51 inches, which is 1.12 inches above normal. The greatest local monthly amount was 8.97 inches at Bowman, the least was 1.98 inch at Barksdale. The greatest 24-hour rainfall was 4.54 inches at Trial on the 30th-31st. The average number of days with 0.01 of an inch, or more, precipitation was 10, ranging from 6 days at Calhoun Falls and Georgetown to 15 days at Charleston and Walterboro.

## WIND.

The prevailing direction of the wind was from the southwest at 19 stations, from the south at 12 stations, from the west at 7 stations, from the northeast at 5 stations, from

the north and southeast at 2 stations each, and from the east at 1 station.

**HIGH WINDS.**—At Beaufort on the 27th; at Bowman on the 9th, 10th, 26th; at Camden on the 20th, 21st, 28th; at Charleston on the 26th; at Cheraw on the 8th, 9th; at Georgetown on the 12th; at Greenville on the 6th, 26th; at Liberty on the 18th, 23d, 27th; at Newberry on the 15th, 20th; at Trial on the 26th, 31st; at Winthrop College on the 8th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 11, of partly cloudy days was 12, and of cloudy days was 8.

## MISCELLANEOUS PHENOMENA.

**SOLAR HALOS.**—At Liberty on the 8th; at Saluda on the 8th, 20th, 24th, 29th.

**LUNAR HALOS.**—At Camden on the 20th, 26th; at Little Mountain, Saluda, and Santuc on the 19th.

**DENSE FOG.**—At Blackville and Charleston on the 3d; at Camden on the 15th.

**HAIL.**—At Beaufort on the 26th; at Liberty on the 2d, 26th; at Pelzer on the 2d.

**THUNDERSTORMS.**—There were 123 thunderstorms noted, on 21 dates, as follows: At Barksdale on the 24th; at Batesburg on the 4th, 7th, 9th, 25th, 26th; at Beaufort on the 1st, 3d, 9th, 12th, 15th, 25th, 26th, 27th, 30th, 31st; at Blackville on the 9th, 11th, 12th, 26th, 31st; at Bowman on the 3d, 4th, 7th, 8th, 9th, 11th, 25th, 26th, 31st; at Camden on the 3d, 6th, 8th, 9th, 10th, 25th, 26th, 31st; at Charleston on the 5th, 6th, 10th, 11th, 16th, 26th; at Cheraw on the 2d, 6th, 8th, 10th, 19th, 26th, 27th; at Columbia on the 3d, 6th, 8th, 9th, 24th, 25th, 26th, 31st; at Greenville on the 3d, 4th, 26th; at Liberty on the 2d, 6th, 7th, 20th, 24th, 25th, 26th, 31st; at Little Mountain on the 8th, 25th; at Newberry on the 2d, 3d, 6th, 8th, 25th, 26th, 31st; at Saluda on the 3d, 7th; at Santuc on the 3d, 4th, 6th, 8th, 20th, 24th, 25th, 26th, 31st; at Society Hill on the 1st, 6th, 8th, 26th; at Summerville on the 1st, 4th, 7th, 9th, 11th, 26th, 31st; at Trenton on the 2d, 3d, 6th, 8th, 27th, 30th, 31st; at Trial on the 1st, 3d, 6th, 11th, 26th, 31st; at Walterboro on the 25th; at Winthrop College on the 3d, 4th, 20th; at Yorkville on the 3d, 6th, 11th, 25th.

## REMARKS BY OBSERVERS.

**BARKSDALE.**—The night temperatures were too low thruout the month.—J. T. Garrett. **BEAUFORT.**—The precipitation was above normal and both temperature and sunshine were below normal.—Sidney M. Benton. **BOWMAN.**—The temperature was unusually low at times, and the precipitation excessive. The greatest 24 hour rainfall of record at this station occurred on the 31st when 4.06 inches fell in three and one-half hours.—B. O. Evans. **CAMDEN.**—The month was noteworthy for its heavy rainfall and generally low temperature.—J. B. Mickle. **LIBERTY.**—The noteworthy features of the weather for May were the deficiency in sunshine, the high relative humidity and the



low night temperatures.—Jno. T. Boggs. SALUDA.—Locusts were first heard on April 28th and they were quite numerous on May 1st, but disappeared by May 24th.—Alvin Etheridge. SOCIETY HILL.—The mean temperature was below, and the precipitation was above normal.—Maj. J. J. Lucas. TRENTON.—The accumulated precipitation since January 1st is 5.26 inches less than the average for the first five months of the year.—C. A. Long. TRIAL.—There were three distinct showers on the 31st, as follows: From 3 a. m. to 9 a. m., 2.05 inches; 2 p. m. to 3 p. m., 0.03 of an inch; and from 4 p. m. to 6 p. m., 2.00 inches, making a total of 4.08 inches.—Estell Gaillard.

BAROMETER AND WIND TABLE FOR MAY, 1907.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 29.99      | 30.23    | 22    | 29.70   | 31    | 4.383           | 5.9             | 31                | nw.        | 6     |
| Charleston.....       | 30.01      | 30.25    | 22    | 29.74   | 11    | 8.083           | 10.9            | 44                | ne.        | 26    |
| Charlotte, N. C.....  | 30.00      | 30.30    | 5     | 29.75   | 11    | 5.196           | 7.0             | 35                | w.         | 8     |
| Columbia.....         | 29.99      | 30.27    | 22    | 29.72   | 11    | 4.265           | 5.7             | 29                | w.         | 8     |
| Savannah, Ga.....     | 30.01      | 30.22    | 23    | 29.74   | 31    | 5.556           | 7.5             | 25                | ne.        | 12    |
| Wilmington, N. C..... | 30.01      | 30.28    | 5     | 29.72   | 11    | 6.156           | 8.3             | 28                | w.         | 8     |
| Averages.....         | 30.00      | 30.30    | 5     | 29.70   | 31    | 5.610           | 7.6             | 44                | ne.        | 26    |

RIVER GAGE READINGS, MAY, 1907.

| Stations.            | Mean. | Highest. | Date. | Lowest. | Date. |
|----------------------|-------|----------|-------|---------|-------|
| Blairs.....          | 1.2   | 3.6      | 5     | 0.2     | 21    |
| Calhoun Falls.....   | 3.4   | 4.8      | 4     | 2.8     | *23   |
| Camden.....          | 6.7   | 9.3      | 5     | 4.9     | 20    |
| Catawba.....         | 2.5   | 3.7      | 11    | 1.9     | 22    |
| Chappells.....       | 3.5   | 6.0      | 4     | 2.2     | 24    |
| Cheraw.....          | 4.0   | 6.9      | 13    | 2.0     | 26    |
| Columbia.....        | 1.6   | 4.0      | 4     | 0.5     | 26    |
| Edisto.....          | 3.9   | 5.0      | *11   | 2.6     | 26    |
| Effingham.....       | 6.3   | 8.7      | 16    | 4.0     | 27    |
| Kingstree.....       | 6.8   | 8.0      | *22   | 5.0     | 17    |
| Mt. Holly, N. C..... | 2.0   | 2.4      | *3    | 1.8     | *21   |
| Pelzer.....          | 3.4   | 5.0      | 9     | 2.5     | *29   |
| Rimini.....          | 9.0   | 11.8     | 1     | 5.4     | 26    |
| St. Stephens.....    | 6.8   | 8.9      | *1    | 3.2     | 25    |
| Smith Mills.....     | 9.1   | 12.9     | 3     | 4.0     | *27   |

## ERRATA.

The following corrections should be made in the March, 1907, number of the Monthly Reports: On pages 21 and 24,

at Allendale, the total precipitation, 0.67, should be 0.65; at Clemson College, total precipitation, 3.02, should be 3.11; at Walterboro, total precipitation, 1.21, should be 1.24. On page 22, at Liberty, the maximum temperature on the 10th, 65°, should be 67°.

PRECIPITATION DATA FOR CHARLESTON, S. C.

Monthly and Annual Precipitation.

| Year. | Jan. | Feb.  | Mar. | Apr.  | May. | June. | July. | Aug.  | Sept. | Oct.  | Nov. | Dec. | Year. |
|-------|------|-------|------|-------|------|-------|-------|-------|-------|-------|------|------|-------|
| 1871. | 1.27 | 4.66  | 5.72 | 5.60  | 7.87 | 2.33  | 2.91  | 14.97 | 6.52  | 4.76  | 4.09 | 3.67 | 63.82 |
| 1872. | 3.78 | 5.13  | 9.87 | 2.46  | 6.30 | 1.87  | 2.30  | 7.81  | 7.88  | 3.89  | 3.40 | 2.46 | 57.06 |
| 1873. | 4.13 | 2.27  | 3.05 | 1.33  | 4.93 | 6.29  | 6.97  | 12.94 | 8.18  | 2.07  | 5.08 | 4.94 | 62.15 |
| 1874. | 3.51 | 10.45 | 3.45 | 2.95  | 5.50 | 2.29  | 13.74 | 7.06  | 6.66  | 1.85  | 2.11 | 2.94 | 62.51 |
| 1875. | 7.77 | 4.27  | 6.37 | 4.56  | 8.51 | 3.15  | 1.05  | 1.91  | 4.18  | 3.90  | 3.38 | 1.92 | 50.97 |
| 1876. | 0.63 | 2.43  | 2.54 | 4.93  | 3.37 | 14.98 | 11.26 | 5.10  | 11.26 | 14.32 | 1.35 | 5.85 | 78.42 |
| 1877. | 4.41 | 2.96  | 7.86 | 15.00 | 2.71 | 10.31 | 10.21 | 2.21  | 6.30  | 4.87  | 7.02 | 4.22 | 78.11 |
| 1878. | 7.83 | 3.15  | 1.94 | 9.08  | 6.32 | 5.47  | 12.10 | 10.73 | 8.28  | 3.98  | 3.18 | 5.38 | 77.44 |
| 1879. | 1.74 | 4.56  | 1.44 | 6.29  | 3.36 | 3.29  | 7.77  | 4.50  | 5.90  | 6.74  | 3.70 | 1.00 | 50.26 |
| 1880. | 2.15 | 3.97  | 2.01 | 3.05  | 0.90 | 2.18  | 5.77  | 3.07  | 4.89  | 9.19  | 5.50 | 3.41 | 46.69 |
| 1881. | 5.88 | 1.56  | 4.11 | 3.37  | 0.48 | 1.47  | 4.99  | 7.25  | 5.49  | 1.59  | 2.15 | 4.76 | 43.20 |
| 1882. | 1.69 | 1.09  | 5.96 | 2.72  | 1.82 | 9.12  | 5.35  | 9.32  | 5.85  | 6.56  | 3.51 | 3.99 | 57.01 |
| 1883. | 4.06 | 0.92  | 4.84 | 3.29  | 8.62 | 2.88  | 8.93  | 10.05 | 2.36  | 1.33  | 1.08 | 2.81 | 51.35 |
| 1884. | 5.89 | 4.29  | 4.39 | 3.45  | 2.18 | 8.25  | 9.52  | 6.12  | 11.03 | 0.35  | 1.49 | 3.26 | 60.22 |
| 1885. | 68.8 | 3.64  | 1.76 | 1.17  | 2.20 | 5.06  | 7.49  | 19.18 | 2.73  | 8.09  | 1.94 | 6.30 | 67.93 |
| 1886. | 5.54 | 2.13  | 2.60 | 1.19  | 1.00 | 10.78 | 4.16  | 3.28  | 3.03  | 0.01  | 0.33 | 1.79 | 35.94 |
| 1887. | 4.30 | 2.29  | 0.50 | 3.53  | 4.26 | 4.54  | 7.74  | 4.12  | 1.31  | 3.55  | 0.64 | 7.81 | 44.69 |
| 1888. | 1.95 | 3.64  | 3.64 | 1.38  | 5.82 | 3.14  | 6.06  | 4.01  | 5.33  | 4.83  | 7.51 | 2.12 | 49.46 |
| 1889. | 6.46 | 4.51  | 7.49 | 2.41  | 0.98 | 5.96  | 6.74  | 7.36  | 2.17  | 0.73  | 7.28 | 0.03 | 52.18 |
| 1890. | 1.28 | 1.28  | 1.72 | 2.58  | 3.07 | 1.32  | 12.87 | 5.16  | 11.89 | 4.64  | 0.42 | 1.01 | 47.84 |
| 1891. | 2.33 | 0.99  | 5.47 | 2.07  | 3.85 | 1.20  | 8.98  | 6.96  | 6.06  | 4.20  | 1.77 | 1.62 | 45.50 |
| 1892. | 4.00 | 1.54  | 2.84 | 0.51  | 3.03 | 10.32 | 10.33 | 4.73  | 11.77 | 0.75  | 0.98 | 2.52 | 53.32 |
| 1893. | 3.22 | 2.97  | 3.07 | 1.16  | 3.36 | 16.50 | 4.05  | 15.51 | 7.10  | 7.51  | 1.36 | 4.56 | 70.99 |
| 1894. | 1.71 | 3.91  | 1.78 | 0.53  | 3.47 | 3.38  | 11.28 | 12.11 | 10.94 | 4.12  | 3.24 | 0.44 | 56.81 |
| 1895. | 7.68 | 4.47  | 5.22 | 1.21  | 5.63 | 4.25  | 6.46  | 5.08  | 6.96  | 0.77  | 2.44 | 2.03 | 55.18 |
| 1896. | 4.34 | 4.04  | 3.64 | 0.71  | 0.52 | 7.57  | 10.58 | 4.72  | 2.75  | 1.38  | 1.77 | 5.75 | 47.78 |
| 1897. | 0.84 | 7.61  | 4.38 | 1.89  | 1.20 | 5.57  | 9.42  | 7.34  | 2.61  | 7.04  | 0.50 | 2.35 | 50.65 |
| 1898. | 0.19 | 0.51  | 1.71 | 2.48  | 0.64 | 4.68  | 12.99 | 11.34 | 1.49  | 3.44  | 4.63 | 2.32 | 46.42 |
| 1899. | 2.84 | 4.82  | 1.60 | 3.05  | 3.31 | 3.29  | 5.11  | 8.67  | 1.77  | 3.48  | 4.95 | 0.85 | 44.33 |
| 1900. | 3.10 | 2.31  | 3.51 | 3.42  | 1.38 | 6.29  | 1.59  | 0.40  | 2.34  | 4.03  | 4.48 | 4.65 | 38.10 |
| 1901. | 3.25 | 3.58  | 2.40 | 1.04  | 4.30 | 4.15  | 5.53  | 4.95  | 0.40  | 0.86  | 0.79 | 1.85 | 32.70 |
| 1902. | 9.15 | 2.92  | 4.36 | 1.03  | 1.43 | 1.82  | 6.79  | 3.04  | 3.73  | 3.37  | 4.05 | 4.23 | 37.22 |
| 1903. | 5.17 | 2.07  | 3.44 | 0.96  | 1.85 | 4.64  | 3.23  | 10.83 | 2.36  | 2.30  | 1.20 | 1.81 | 42.86 |
| 1904. | 3.49 | 3.57  | 1.54 | 1.07  | 1.46 | 3.82  | 6.36  | 6.62  | 3.17  | 4.75  | 1.85 | 1.08 | 37.82 |
| 1905. | 1.32 | 3.67  | 2.50 | 2.30  | 4.33 | 2.43  | 5.70  | 2.63  | 2.16  | 2.63  | 0.94 | 4.24 | 34.85 |
| 1906. | 3.65 | 2.08  | 2.32 | 1.17  | 2.91 | 4.75  | 8.68  | 7.87  | 3.31  | 4.07  | 0.38 | 1.83 | 43.62 |
| Mean  | 3.55 | 3.34  | 3.61 | 3.03  | 3.52 | 5.28  | 7.38  | 7.19  | 5.30  | 3.98  | 2.79 | 3.11 | 52.08 |

Extremes of Precipitation.

| Month.         | 24-Hour Max. | Year. | Date. | Greatest Monthly. | Year. | Least Monthly. | Year. |
|----------------|--------------|-------|-------|-------------------|-------|----------------|-------|
| January.....   | 3.08         | 1885  | 7-8   | 7.83              | 1878  | 0.19           | 1898  |
| February.....  | 2.79         | 1884  | 16-17 | 10.43             | 1874  | 0.51           | 1898  |
| March.....     | 3.14         | 1880  | 13-14 | 9.78              | 1872  | 0.50           | 1887  |
| April.....     | 8.30         | 1887  | 13    | 15.00             | 1877  | 0.51           | 1892  |
| May.....       | 6.38         | 1883  | 1-2   | 8.62              | 1883  | 0.48           | 1881  |
| June.....      | 4.91         | 1876  | 12    | 16.50             | 1893  | 1.20           | 1891  |
| July.....      | 6.07         | 1890  | 17-18 | 13.75             | 1874  | 1.05           | 1875  |
| August.....    | 5.89         | 1885  | 30-31 | 19.18             | 1885  | 0.40           | 1900  |
| September..... | 7.00         | 1894  | 26-27 | 11.89             | 1890  | 0.40           | 1901  |
| October.....   | 9.55         | 1876  | 19-20 | 14.32             | 1876  | 0.01           | 1886  |
| November.....  | 5.84         | 1889  | 16-17 | 7.54              | 1888  | 0.33           | 1886  |
| December.....  | 3.46         | 1885  | 9-10  | 7.91              | 1887  | 0.03           | 1889  |

COMPARATIVE MAY DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |                   |                |               | Number Rainy Days. | Prevailing Wind Direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|-------------------|----------------|---------------|--------------------|----------------------------|
|           | Mean.        | Mean Maximum. | Mean Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                   | Least Monthly. |               |                    |                            |
|           |              |               |               |          |          |                | Amount.           | Place.            | Amount.        | Place.        |                    |                            |
| 1894..... | 70.7         | 80.8          | 60.6          | 98       | 38       | 3.43           | 6.48              | St. Stephens.     | 1.20           | Trenton.      | 9                  | sw.                        |
| 1895..... | 69.0         | 79.0          | 59.5          | 101      | 34       | 4.36           | 9.94              | Greenwood.        | 1.48           | Port Royal.   | 9                  | sw.                        |
| 1896..... | 76.7         | 88.6          | 65.7          | 104      | 42       | 2.74           | 6.07              | Pinopolis.        | 0.52           | Charleston.   | 8                  | sw.                        |
| 1897..... | 69.3         | 81.3          | 57.3          | 97       | 38       | 2.39           | 5.17              | St. Stephens.     | 0.88           | St. George.   | 6                  | sw.                        |
| 1898..... | 73.8         | 86.5          | 51.2          | 106      | 39       | 1.35           | 6.31              | Trial.            | 0.55           | Central.      | 5                  | sw.                        |
| 1899..... | 73.7         | 85.3          | 62.1          | 100      | 45       | 1.68           | 3.72              | Pinopolis.        | 0.53           | Camden.       | 5                  | sw.                        |
| 1900..... | 70.2         | 81.8          | 58.5          | 96       | 38       | 2.37           | 4.99              | Yorkville.        | 1.17           | Society Hill. | 5                  | sw.                        |
| 1901..... | 71.6         | 82.6          | 60.2          | 99       | 40       | 7.31           | 13.08             | Winthrop College. | 2.17           | Beaufort.     | 11                 | sw.                        |
| 1902..... | 74.0         | 85.5          | 62.4          | 101      | 42       | 2.69           | 6.53              | Temperance.       | 0.29           | Liberty.      | 8                  | sw.                        |
| 1903..... | 70.7         | 80.8          | 60.6          | 104      | 44       | 2.69           | 11.97             | Beaufort.         | 0.25           | Liberty.      | 9                  | ne.                        |
| 1904..... | 70.7         | 83.7          | 57.4          | 99       | 38       | 2.04           | 4.67              | Walhalla.         | 0.32           | Snider.       | 7                  | sw.                        |
| 1905..... | 73.4         | 83.2          | 63.5          | 99       | 42       | 5.70           | 9.50              | Smiths Mills.     | 2.95           | Batesburg.    | 13                 | sw.                        |
| 1906..... | 70.7         | 81.4          | 60.0          | 99       | 40       | 3.00           | 5.50              | Calhoun Falls.    | 1.59           | Bowman.       | 7                  | sw.                        |
| 1907..... | 70.8         | 80.8          | 60.8          | 96       | 41       | 4.51           | 8.97              | Bowman.           | 1.98           | Barksdale.    | 10                 | sw.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1907.

| STATIONS.                             | Counties.     | Elevation feet. | Length of record years. | Temperature—in degrees Fahrenheit |                            |          |       |         |       | Precipitation—in inches |        |                            |                    | SKY                   |                 |                 |                 | Observations. |       |                        |
|---------------------------------------|---------------|-----------------|-------------------------|-----------------------------------|----------------------------|----------|-------|---------|-------|-------------------------|--------|----------------------------|--------------------|-----------------------|-----------------|-----------------|-----------------|---------------|-------|------------------------|
|                                       |               |                 |                         | Mean.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.   | Total. | Departure from the normal. | Greatest 12 hours. | Total snow in inches. | Number of days. | Number of days. | Number of days. |               |       |                        |
| Aiken.                                | Aiken.        | 505             | 23                      | 71.4                              | -0.7                       | 91       | *19   | 51      | *17   | 36                      | 1.57   | -0.26                      | 0.82               | 0                     | 8               | 12              | 17              | 2             | SW.   | C. F. McGahan, M. D.   |
| Allendale.                            | Barnwell.     | 186             | 19                      | 71.8                              | -0.8                       | 89       | *20   | 53      | 13    | 30                      | 6.50   | -2.83                      | 1.50               | 0                     | 19              | 6               | 12              | 12            | W.    | A. R. Hiers.           |
| Anderson.                             | Anderson.     | 704             | 6                       | 68.6                              | -0.9                       | 90       | 19    | 46      | 28    | 36                      | 1.19   | +0.65                      | 1.66               | 0                     | 13              | 17              | 2               | 12            | W.    | H. H. Russell.         |
| Angusta, Ga.                          | Richmond.     | 131             | 36                      | 71.2                              | -1.0                       | 90       | 19    | 51      | 17    | 31                      | 5.33   | +1.88                      | 2.12               | 0                     | 12              | 10              | 12              | 9             | SW.   | Weather Bureau.        |
| Barksdale.                            | Laurens.      | 680             | 6                       | 69.4                              | .....                      | 90       | 19    | 45      | 28    | 31                      | 1.98   | .....                      | 0.40               | 0                     | 8               | 16              | 13              | 2             | SW.   | J. T. Garrett.         |
| Batesburg.                            | Lexington.    | 656             | 19                      | 70.5                              | -1.2                       | 90       | *19   | 48      | 28    | 34                      | 6.82   | +1.16                      | 1.98               | 0                     | 9               | 13              | 8               | 10            | n.    | E. J. Hite.            |
| Beaufort.                             | Beaufort.     | 20              | 21                      | 72.4                              | -1.7                       | 88       | 20    | 55      | 12    | 28                      | 3.72   | +1.29                      | 1.12               | 0                     | 14              | 10              | 16              | 5             | S.    | S. M. Benton.          |
| Bennettsville.                        | Marlboro.     | 151             | 6                       | 70.2                              | .....                      | 92       | *19   | 44      | 22    | 31                      | 4.38   | .....                      | 1.05               | 0                     | 12              | 13              | 11              | 1             | S.    | C. S. McCall.          |
| Blackville.                           | Barnwell.     | 296             | 19                      | 73.0                              | -0.2                       | 95       | 24    | 50      | 29    | 38                      | 5.67   | +1.86                      | 2.00               | 0                     | 11              | 12              | 11              | 8             | SW.   | G. D. C. Lange.        |
| Blair.                                | Fairfield.    | 293             | 2                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....              | .....                 | .....           | .....           | .....           | .....         | ..... | T. S. McMeekin.        |
| Bowman.                               | Orangeburg.   | 160             | 6                       | 72.0                              | .....                      | 92       | *19   | 52      | *22   | 37                      | 8.97   | .....                      | 4.06               | 0                     | 12              | 13              | 10              | 8             | SW.   | R. O. Evans.           |
| Calhoun Falls.                        | Abbeville.    | 508             | 14                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....              | .....                 | .....           | .....           | .....           | .....         | ..... | P. J. Pfeiffer.        |
| Camden (1).                           | Kershaw.      | .....           | 2                       | 69.2                              | .....                      | 90       | *19   | 48      | 28    | 32                      | 6.16   | +0.10                      | 0.87               | 0                     | 6               | 12              | 1               | 18            | ne.   | J. B. Mickle.          |
| Camden (2).                           | Kershaw.      | 222             | 41                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 4.69   | +1.44                      | 0.60               | 0                     | 9               | 17              | 7               | 7             | SW.   | W. C. Brown.           |
| Catawba.                              | York.         | .....           | 2                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 2.52   | .....                      | 0.70               | 0                     | 7               | 13              | 7               | 11            | S.    | James Y. Brier.        |
| Chappells.                            | Newberry.     | 402             | .....                   | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 2.24   | .....                      | 0.54               | 0                     | 7               | 13              | 7               | 11            | SW.   | J. A. Melham.          |
| Charleston.                           | Charleston.   | 48              | 38                      | 72.0                              | -0.4                       | 87       | 20    | 58      | 13    | 20                      | 2.98   | -1.04                      | 0.81               | 0                     | 15              | 9               | 13              | 9             | S.    | Weather Bureau.        |
| Charlotte, N. C.                      | Mecklenburg.  | 808             | 29                      | 66.8                              | -1.6                       | 87       | 10    | 46      | 28    | 29                      | 4.07   | -0.27                      | 1.77               | 0                     | 12              | 11              | 6               | 11            | SW.   | Weather Bureau.        |
| Cheraw (1).                           | Chesterfield. | 144             | 19                      | 68.4                              | -2.7                       | 80       | *19   | 45      | 22    | 34                      | 5.11   | +1.18                      | 1.11               | 0                     | 12              | 12              | 6               | 13            | S.    | W. R. Godfrey.         |
| Cheraw (2).                           | .....         | 144             | 14                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 5.44   | +1.31                      | 1.32               | 0                     | 13              | 15              | 7               | 9             | S.    | Jno. H. Powe.          |
| Clarks Hill.                          | Edgefield.    | 500             | 5                       | 69.3                              | .....                      | 88       | *19   | 48      | *18   | 39                      | 2.76   | .....                      | 0.91               | 0                     | 10              | .....           | .....           | .....         | ..... | Wm. S. Middleton.      |
| Clemson College.                      | Oconee.       | 850             | 16                      | 67.7                              | -2.6                       | 84       | *19   | 45      | *28   | 31                      | 4.29   | +1.08                      | 1.25               | 0                     | 9               | 19              | 5               | 7             | S.    | Jno. N. Hook.          |
| Columbia.                             | Richland.     | 351             | 20                      | 70.5                              | 1.3                        | 90       | 19    | 51      | 29    | 31                      | 5.80   | +1.04                      | 3.01               | 0                     | 12              | 9               | 7               | 15            | SW.   | Central Office.        |
| Conway.                               | Horry.        | 25              | 15                      | 70.8                              | .....                      | 91       | 20    | 48      | 29    | 35                      | 4.14   | +0.68                      | 1.50               | 0                     | 14              | 20              | 5               | 6             | S.    | P. C. Quantelbaum.     |
| Darlington.                           | Darlington.   | 175             | 12                      | 70.7                              | .....                      | 95       | 24    | 44      | 22    | 36                      | 4.79   | +2.13                      | 2.00               | 0                     | 12              | .....           | .....           | .....         | ..... | D. C. McCall.          |
| Dillon.                               | Marion.       | 100             | 3                       | 69.4                              | .....                      | 91       | 19    | 41      | 22    | 39                      | 3.61   | .....                      | 1.36               | 0                     | 10              | .....           | .....           | .....         | ..... | A. E. Rowell.          |
| Due West.                             | Abbeville.    | 730             | 6                       | 69.4                              | .....                      | 88       | 19    | 48      | 28    | 28                      | 4.54   | .....                      | 1.52               | 0                     | 11              | 17              | 1               | 10            | W.    | Rev. O. Y. Bonner.     |
| Edisto.                               | Bamberg.      | 127             | 14                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 7.26   | +4.20                      | 2.33               | 0                     | 7               | 14              | 3               | 14            | ne.   | Mrs. M. Thompson.      |
| Ellingham.                            | Florence.     | 106             | 15                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 5.55   | +2.04                      | 1.50               | 0                     | 8               | 22              | 1               | 8             | SW.   | H. B. McCall.          |
| Florence.                             | Florence.     | 136             | 19                      | 70.6                              | -2.1                       | 93       | 21    | 45      | 22    | 39                      | 3.38   | -0.36                      | 1.28               | 0                     | 9               | 15              | 1               | 15            | SW.   | H. K. Gilbert.         |
| Georgetown.                           | Georgetown.   | 12              | 14                      | 72.4                              | +0.4                       | 89       | 27    | 52      | 22    | 26                      | 3.54   | +0.19                      | 1.46               | 0                     | 6               | 11              | 19              | 1             | SW.   | Reid Whitford.         |
| Greenville.                           | Greenville.   | 989             | 15                      | 64.2                              | -3.8                       | 85       | *18   | 43      | 28    | 37                      | 4.32   | +0.82                      | 1.40               | 0                     | 9               | 11              | 2               | 5             | SW.   | Mrs. S. A. Crittenden. |
| Greenwood.                            | Greenwood.    | 671             | 19                      | 68.8                              | -2.8                       | 90       | 10    | 48      | 28    | 30                      | 2.35   | 1.45                       | 1.15               | 0                     | 9               | 14              | 0               | 17            | W.    | M. M. Calhoun.         |
| Heath Spring.                         | Laurens.      | 568             | 6                       | 70.7                              | .....                      | 92       | 25    | 50      | *5    | 26                      | 5.27   | .....                      | 1.68               | 0                     | 13              | 10              | 12              | 9             | W.    | J. A. Wenner.          |
| Kingstree (1).                        | Williamsburg. | 54              | 19                      | 73.1                              | +0.8                       | 90       | 19    | 56      | *12   | 25                      | 2.58   | -0.70                      | 0.65               | 0                     | 11              | 17              | 8               | 6             | ne.   | J. A. Scott.           |
| Kingstree (2).                        | .....         | 54              | 13                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 2.19   | .....                      | 0.57               | 0                     | 11              | 16              | 3               | 12            | ne.   | A. O. Matthews.        |
| Liberty.                              | Pickens.      | 900             | 13                      | 68.2                              | -2.9                       | 90       | 23    | 45      | 28    | 39                      | 6.11   | +3.18                      | 1.26               | 0                     | 12              | 11              | 16              | 4             | W.    | Jno. T. Boggs.         |
| Little Mountain.                      | Newberry.     | 630             | 14                      | 70.0                              | -2.5                       | 96       | 20    | 49      | 28    | 33                      | 3.68   | -0.53                      | 1.30               | 0                     | 11              | 6               | 16              | 9             | SW.   | John M. Sease, M. D.   |
| Newberry.                             | Newberry.     | 502             | 3                       | 70.3                              | -0.7                       | 91       | *19   | 49      | 28    | 39                      | 6.38   | +3.88                      | 1.65               | 0                     | 9               | 10              | 12              | 9             | SW.   | W. G. Peterson.        |
| Polzer.                               | Anderson.     | 873             | 2                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 4.50   | .....                      | 1.90               | 0                     | 7               | 12              | 8               | 11            | W.    | John M. Ward.          |
| Pinopolis S.                          | Berkeley.     | 54              | 14                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....              | .....                 | .....           | .....           | .....           | .....         | ..... | E. P. Ravenel.         |
| St. George.                           | Dorchester.   | 109             | 19                      | 73.6                              | +1.3                       | 89       | *19   | 56      | 12    | 26                      | 5.23   | +2.09                      | 1.55               | 0                     | 9               | 19              | 0               | 12            | ..... | G. T. Lewis.           |
| St. Matthews.                         | Orangeburg.   | 269             | 19                      | 69.8                              | -3.1                       | 88       | *19   | 50      | 29    | 28                      | 5.44   | +2.14                      | 1.32               | 0                     | 7               | 23              | 0               | 8             | ..... | J. S. Wannamaker.      |
| St. Stephen.                          | Berkeley.     | 73              | 15                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 3.01   | -1.05                      | 0.80               | 0                     | 9               | 14              | 5               | 12            | S.    | C. T. Shuler.          |
| Saluda.                               | Saluda.       | 536             | 6                       | 70.8                              | .....                      | 91       | 19    | 47      | 29    | 37                      | 3.54   | .....                      | 0.71               | 0                     | 10              | 20              | 5               | 6             | ne.   | Alvin Etheridge.       |
| Santee.                               | Union.        | 512             | 13                      | 68.2                              | -1.8                       | 92       | 19    | 45      | 28    | 38                      | 3.28   | +0.33                      | 0.99               | 0                     | 9               | 10              | 11              | 10            | W.    | E. W. Jeter.           |
| Savannah, Ga.                         | Chatham.      | 71              | 38                      | 72.8                              | +0.3                       | 89       | 20    | 56      | 17    | 25                      | 2.48   | -0.44                      | 0.63               | 0                     | 12              | 8               | 14              | 9             | SW.   | Weather Bureau.        |
| Smiths Mills.                         | Williamsburg. | 62              | 12                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | 3.73   | -1.06                      | 0.80               | 0                     | 13              | 16              | 1               | 14            | n.    | H. van Kuren.          |
| Society Hill.                         | Darlington.   | 192             | 16                      | 69.2                              | -2.8                       | 88       | *20   | 46      | 21    | 30                      | 5.19   | +1.79                      | 1.40               | 0                     | 13              | 15              | 3               | 13            | SW.   | F. J. Lucas.           |
| Spartanburg.                          | Spartanburg.  | 875             | 16                      | 67.6                              | -3.0                       | 90       | *18   | 43      | 28    | 40                      | 4.12   | +1.02                      | 1.22               | 0                     | 9               | 12              | 1               | 18            | ..... | E. P. Robinson.        |
| Stateburg.                            | Sumter.       | 500             | 30                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....              | .....                 | .....           | .....           | .....           | .....         | ..... | W. W. Anderson, M. D.  |
| Summerville.                          | Dorchester.   | 75              | 10                      | 71.9                              | +0.5                       | 92       | *19   | 48      | 18    | 40                      | 2.85   | -0.63                      | 0.95               | 0                     | 11              | 5               | 17              | 9             | SW.   | Miss E. H. Gadsden.    |
| Sumter.                               | Sumter.       | 169             | 6                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                   | .....  | .....                      | .....              | .....                 | .....           | .....           | .....           | .....         | ..... | T. M. Bradley.         |
| Trenton.                              | Edgefield.    | 620             | 14                      | 71.0                              | -2.9                       | 89       | 20    | 48      | 18    | 40                      | 5.14   | +2.23                      | 1.72               | 0                     | 8               | 9               | 11              | 6             | S.    | C. A. Long.            |
| Trial.                                | Berkeley.     | 85              | 21                      | 71.0                              | +0.6                       | 91       | 20    | 45      | 18    | 44                      | 7.06   | +2.45                      | 4.54               | 0                     | 10              | 8               | 16              | 7             | SW.   | Etsell Gaillard.       |
| Walhalla.                             | Oconee.       | 1061            | 16                      | 66.8                              | -0.5                       | 90       | *18   | 42      | 28    | 35                      | 4.53   | +1.59                      | 1.10               | 0                     | 9               | 8               | 21              | 2             | W.    | Miss Jessie Douthit.   |
| Walterboro.                           | Colleton.     | 69              | 4                       | 72.2                              | .....                      | 91       | 20    | 49      | 18    | 38                      | 4.21   | .....                      | 0.72               | 0                     | 15              | 11              | 17              | 3             | ..... | J. A. Westenberg.      |
| Wilmington, N. C.                     | New Hanover.  | 52              | 38                      | 68.7                              | -0.4                       | 86       | 19    | 49      | 12    | 24                      | 5.52   | +1.36                      | 2.11               | 0                     | 13              | 8               | 17              | 6             | SW.   | Weather Bureau.        |
| Winnboro.                             | Fairfield.    | 545             | 18                      | 69.2                              | -2.3                       | 91       | 24    | 51      | 22    | 29                      | 6.55   | +3.25                      | 3.50               | 0                     | 9               | 17              | 12              | 2             | SW.   | John W. Seigler.       |
| Winthrop College.                     | York.         | 690             | 8                       | 68.8                              | -2.6                       | 90       | *19   | 45      | 29    | 29                      | 4.39   | +0.95                      | 1.62               | 0                     | 11              | 15              | 10              | 6             | S.    | E. R. Rivers.          |
| Yemassee.                             | Beaufort.     | 23              | 12                      | 70.5                              | -4.1                       | 89       | 24    | 51      | 18    | 32                      | 4.70   | +2.20                      | 1.10               | 0                     | 13              | 17              | 5               | 9             | ..... | J. G. Hutson.          |
| Yorkville.                            | York.         | 680             | 19                      | 69.7                              | -1.6                       | 93       | 24    | 47      | 28    | 36                      | 6.12   | +2.54                      | 1.76               | 0                     | 13              | 7               | 10              | 14            | SW.   | J. R. Schorb.          |
| MEANS—highest, lowest and dates, etc. | .....         | .....           | .....                   | 70.8                              | -1.4                       | 96       | 20    | 41      | 22    | 44                      | 4.51   | +1.12                      | 4.54               | 0                     | 10              | 11              | 12              | 8             | SW.   | .....                  |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard.

\* On other dates also      a indicates 1 day missing, b, 2 days, etc.      ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MAY, 1907.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR MAY, 1907.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1907.

| STATIONS.         | Day of Month. |      |      |      |     |      |      |      |      |     |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      |      |      |     |      | Total. |      |      |      |
|-------------------|---------------|------|------|------|-----|------|------|------|------|-----|-----|-----|-----|----|-----|------|-----|------|----|-----|-----|----|----|----|-----|------|------|------|------|-----|------|--------|------|------|------|
|                   | 1             | 2    | 3    | 4    | 5   | 6    | 7    | 8    | 9    | 10  | 11  | 12  | 13  | 14 | 15  | 16   | 17  | 18   | 19 | 20  | 21  | 22 | 23 | 24 | 25  | 26   | 27   | 28   | 29   | 30  | 31   |        |      |      |      |
| Aiken             |               |      | .50  | .65  |     |      |      | .35  |      | .82 | .10 |     |     |    |     |      |     |      |    |     |     |    |    |    |     | .10  | .30  |      |      |     | .75  | 3.57   |      |      |      |
| Allendale         |               |      |      | 1.40 |     |      | 1.47 |      | 1.50 |     | .81 | .20 | .12 |    |     |      |     |      |    |     |     |    |    |    |     |      | .80  |      |      |     | .20  | 6.50   |      |      |      |
| Anderson          |               |      | .04  | .61  |     | .06  |      | .22  | .19  |     | .04 |     |     |    |     |      |     |      |    |     |     |    |    |    | .11 | .13  | .09  | .10  |      | .11 | 1.60 | 3.49   |      |      |      |
| Augusta, Ga.      | T.            | .10  | .35  |      |     | T.   |      | 1.28 | .84  | T.  | .14 | .05 |     |    |     | .13  | T.  |      |    |     |     |    |    |    | .11 | .13  | .09  | .10  |      | .08 | .26  | 5.33   |      |      |      |
| Barksdale         |               |      | .15  | .25  |     | .20  |      | .40  |      | .20 | .10 |     |     |    |     |      |     |      |    |     |     |    |    | T. | T.  | .20  | .10  | T.   |      |     | .38  | 1.98   |      |      |      |
| Batesburg         |               | T.   | .21  | 1.93 |     |      | .79  |      | 1.98 |     | .23 |     |     |    |     |      |     | T.   |    |     |     |    |    |    |     | .84  | .40  | .32  |      |     | .12  | 6.82   |      |      |      |
| Beaufort          | .27           | .02  |      | .48  | .20 |      |      | .10  | .10  | T.  | .11 | .41 | .59 |    | .34 |      |     |      |    |     |     |    |    |    |     |      | .35  | .77  |      | .03 | .45  | 3.72   |      |      |      |
| Bennettsville     |               | .41  | .19  |      |     | .31  |      | 1.05 | .04  | .41 |     |     |     |    | .07 | .20  |     |      |    |     | T.  |    |    |    |     | .55  | .05  | .40  |      |     | .60  | 4.38   |      |      |      |
| Blackville        |               | .09  | .12  | .50  |     | .35  |      | 2.00 | .03  | .20 | .08 |     |     |    |     |      | T.  |      |    |     |     |    |    |    |     |      | .05  | .65  |      |     | 1.60 | 5.67   |      |      |      |
| Blairs            |               |      |      | .36  |     |      |      | .62  |      |     |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      |      |      |     |      |        |      |      |      |
| Bowman            | T.            | .06  | .32  | 1.80 | .08 | T.   | .28  | .31  | .24  | T.  | .17 | T.  |     |    |     | .08  |     |      |    |     |     |    |    |    |     | .45  | 1.12 |      |      | T.  | 4.06 | 8.97   |      |      |      |
| Calhoun Falls     |               |      |      | .62  |     |      |      | .81  |      | .21 |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      | .87  | .62  | .44  |     |      |        | 3.57 |      |      |
| Camden (1)        | .08           | .06  | .79  |      |     | 1.00 |      | .47  | .19  | .09 | .40 |     |     |    |     | T.   | .35 |      |    |     |     |    |    |    |     |      | .56  | .12  |      |     | T.   | 2.05   | 6.16 |      |      |
| Camden (2)        |               |      | .52  | .34  |     | .60  |      | .48  |      | .56 |     |     |     |    |     |      | .24 |      |    |     |     |    |    |    |     |      | .47  | .10  |      |     | .08  | 4.69   |      |      |      |
| Catawba           |               |      | .18  | .36  |     | .36  |      | .70  |      | .26 |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      | .18  | .46  |      |     |      | .25    | 2.52 |      |      |
| Chappells         |               |      | .54  | .22  |     | .22  |      | .51  |      |     |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      | .15  | .10  | .50  |     |      | .24    | 2.24 |      |      |
| Charleston        | .01           | .04  | .27  | .18  |     | .69  |      | .07  | .05  | T.  | .43 | .06 | T.  |    | .01 | .80  | .01 |      |    |     |     |    |    |    |     |      | .25  | .07  |      |     | T.   | .04    | 2.98 |      |      |
| Charlotte, N. C.  |               | T.   | .29  |      |     | .03  | .02  | .20  | .20  | .18 | .09 |     |     |    | .07 | T.   |     |      |    |     |     |    |    |    |     |      | .08  | .01  | .23  |     | T.   | 1.77   | 4.07 |      |      |
| Cheraw (1)        |               | .20  | .38  | .31  |     | T.   | .58  |      | 1.11 |     | .33 |     |     |    |     | 1.00 |     |      |    |     | .11 |    |    |    |     |      | T.   | .74  | .04  | .06 |      | .15    | 5.11 |      |      |
| Cheraw (2)        |               | .20  | .42  | .31  |     |      | .62  |      | 1.32 |     | .35 | T.  |     |    |     | .07  | .86 |      |    |     | .18 |    |    |    |     |      | T.   | .81  | .04  | .18 |      | .18    | 5.54 |      |      |
| Clark's Hill      | T.            |      |      | .36  |     | .09  |      | .16  | .91  |     | .17 | T.  |     |    |     |      |     |      |    |     |     |    |    |    |     |      | T.   | .05  | .12  | .31 |      | .06    | .53  | 2.76 |      |
| Clemson College   |               |      | .68  |      |     |      | .50  |      | .27  |     | .25 |     |     |    | .27 |      |     |      |    |     |     |    |    |    |     | .10  |      |      |      |     | .57  | 1.25   | 4.29 |      |      |
| Columbia          |               | .01  | 1.08 |      |     | .39  |      | .17  | .35  | .10 | .20 |     |     |    |     | .06  |     |      |    |     |     |    |    |    |     |      | .07  | .29  | .04  |     | .03  | 3.01   | 5.80 |      |      |
| Conway            |               | .85  | .10  | .15  | .07 | .08  | .12  |      | 1.50 | .40 | .10 | .12 |     |    | .05 | .30  |     |      |    |     |     |    |    |    |     |      |      |      |      | T.  |      | .10    | 4.14 |      |      |
| Darlington        |               | .19  | .23  | .14  |     | .21  |      |      | 2.00 |     | .40 | T.  |     |    |     |      | .04 | .18  |    |     |     |    |    |    |     |      |      | 1.02 | .12  | .21 |      |        | .05  | 4.79 |      |
| Dillon            |               | .32  | .04  | .09  |     | .17  | .11  | 1.36 |      | .11 |     |     |     |    | T.  | T.   |     |      |    |     |     |    |    |    |     |      | .18  | .03  |      |     | T.   | .80    | 3.61 |      |      |
| Due West          |               |      | 1.52 | .34  |     | .20  |      | .12  | .06  |     | .04 |     | .12 |    | .27 |      |     |      |    |     |     |    |    |    |     | 1.20 |      | .40  |      |     |      | .27    | 4.54 |      |      |
| Edisto            |               |      | 2.33 |      |     |      | .83  |      | 1.23 |     | .75 |     |     |    |     |      | .33 |      |    |     |     |    |    |    |     |      |      |      | 1.52 |     |      | 2.27   | 7.26 |      |      |
| Effingham         | T.            | T.   | .90  | .50  |     | .50  |      | 1.50 | .50  | .60 |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      | .80  |      |     |      | .25    | 5.55 |      |      |
| Florence          |               | .15  | .20  | .30  |     | .40  |      | 1.28 | .15  | .18 |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      | .20  | .52  |     |      | T.     | .38  | 3.38 |      |
| Georgetown        | T.            |      | .21  |      |     | .11  |      | 1.06 | .20  |     |     |     |     |    |     |      |     | 1.46 |    |     |     |    |    |    |     |      |      |      |      |     |      | T.     | .50  | 3.54 |      |
| Greenville        |               |      | .85  | .53  |     | .15  |      | .95  |      | .16 |     |     |     |    | .15 | .02  |     |      |    |     |     |    |    |    |     |      |      |      | .11  |     |      | 1.40   | 4.32 |      |      |
| Greenwood         |               |      | 1.15 | .16  |     | .10  |      | .40  |      |     |     |     |     |    | .05 |      |     |      |    |     |     |    |    |    |     |      | .10  | .07  |      | .20 |      | .12    | 2.35 |      |      |
| Heath Spring      |               |      | 1.68 |      |     | .25  |      | .60  | .53  | .22 | .16 |     |     |    |     | .03  |     |      |    | .04 |     |    |    |    |     |      | .44  | .76  | .03  |     |      |        | 5.27 |      |      |
| Kingstree(1)      |               | .34  | .10  | .40  | .25 | T.   | .08  |      | .38  | .14 | .08 |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      | .03  | .48  |     |      | .30    | 2.58 |      |      |
| Kingstree(2)      |               | .53  | .45  | .15  |     | T.   | .42  | T.   |      |     |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      |      |      | .64 |      |        | 2.19 |      |      |
| Liberty           |               | .35  | .50  |      |     | .20  | .30  | .30  |      | .10 | .20 |     |     |    | .40 |      |     |      |    | T.  |     |    |    |    |     |      |      |      |      |     |      |        | 3.73 |      |      |
| Little Mountain   |               | .01  | 1.30 | .15  |     | .05  |      | .40  | .25  | .07 | .22 |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      | 1.26 |      |     |      | 1.10   | 1.20 | 6.11 |      |
| Newberry          |               | .32  | .06  | .05  |     | .43  | 1.40 |      | .48  |     |     |     |     |    | .11 | .17  |     |      |    |     |     |    |    |    |     |      |      |      |      |     |      |        | 2.22 | 3.68 |      |
| Pelzer            |               | 1.18 | .84  |      |     | .30  |      | 1.00 |      | .09 |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      | .01  | .67  | .61  |     |      |        | 1.65 | 6.38 |      |
| Pinopolis         |               |      | .50  | .60  |     | .14  |      | 1.14 |      |     |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      |      | .20  |     |      | .02    | 1.90 | 4.50 |      |
| St. George        |               |      | .65  |      |     | .23  |      | .38  | 1.17 | .43 |     |     |     |    |     |      | .02 |      |    |     |     |    |    |    |     |      |      | .25  | .90  |     |      | 1.20   | 5.23 |      |      |
| St. Matthews      |               |      | .95  | .55  |     |      |      | 1.20 |      | .20 |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      | .75  | 1.32 |     |      |        | .47  | 5.44 |      |
| St. Stephens      | T.            | .02  | .50  |      |     | .08  |      | .18  | .55  | .34 |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      | .20  | .34  |     |      |        | .80  | 3.01 |      |
| Saluda            |               | T.   | .31  |      | .04 | .40  | .52  |      | .08  |     |     |     |     |    |     | T.   | T.  |      |    |     |     |    |    |    |     |      |      | .71  | .36  | .17 |      | .04    | .61  | 3.54 |      |
| Santuc            |               |      | .40  |      | .52 |      | .32  | .26  | T.   | .17 |     |     |     |    |     | T.   | T.  |      |    |     |     |    |    |    |     |      |      | .22  | .36  | .04 |      |        | .99  | 3.28 |      |
| Savannah, Ga.     |               | .06  | .25  | .01  |     | T.   |      | .07  | .02  | T.  | .09 | .53 |     |    | .19 | T.   |     |      |    |     |     |    |    |    |     |      |      |      | .26  | .37 |      | .03    | .60  | 2.48 |      |
| Smith Mills       |               | .35  | .10  | .60  | .10 | .10  | .08  | .08  | .80  | .62 | .12 | .15 |     |    |     |      | .40 |      |    |     |     |    |    |    |     |      |      |      |      |     |      |        | 3.73 |      |      |
| Society Hill      |               | .32  | .06  | .05  |     | .43  | 1.40 |      | .48  |     |     |     |     |    | .11 | .17  |     |      |    |     |     |    |    |    |     |      |      |      |      |     |      |        | .75  | 5.19 |      |
| Spartanburg       |               |      | .60  | .40  |     | .35  |      | .52  |      | .20 |     |     |     |    | .05 | T.   |     |      |    |     |     |    |    |    |     |      |      | 1.17 | .03  | .07 |      | .15    | .75  | 4.12 |      |
| Stateburg         |               |      |      |      |     |      |      |      |      |     |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      | T.   | 1.22 | T.  |      |        |      |      |      |
| Summerville       | .09           | .04  |      | .40  |     | .07  |      | .21  |      | .42 | T.  |     |     |    | .01 | T.   | T.  |      |    |     |     |    |    |    |     |      |      | T.   | .50  | .09 |      | .07    | .95  | 2.85 |      |
| Sumter            |               |      |      |      |     |      |      |      |      |     |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      |      |      |     |      |        |      |      |      |
| Trenton           | .05           |      |      | .55  |     | .60  |      | .35  | .73  | T.  |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      |      |      |     |      |        | .16  | .98  | 5.14 |
| Trial             | .03           | .04  | .43  |      |     | .11  |      | .10  | .43  | .10 | .08 |     |     |    |     | T.   | T.  |      |    |     |     |    |    |    |     |      |      |      |      |     |      |        | .46  | 4.08 | 7.06 |
| Walhalla          |               |      | .74  |      |     | .23  | .30  | T.   | .12  | T.  | .39 |     |     |    |     | .44  |     |      |    |     |     |    |    |    |     |      |      |      |      | .83 |      |        | .42  | 1.10 | 4.53 |
| Walterboro        | .26           | .07  | .05  | .55  |     | .08  | .09  | .50  |      | .72 | .05 |     |     |    | .03 | .04  |     |      |    |     |     |    |    |    |     |      |      |      | .50  | .70 | .48  |        | T.   | .09  | 4.21 |
| Wilmington, N. C. | .01           | .14  |      | .40  |     | .02  |      | .54  | 1.57 |     | .80 |     |     |    | T.  | .73  | .52 |      |    |     |     |    |    |    |     |      |      |      | .29  |     | .15  |        | T.   | .34  | 5.52 |
| Winnsboro         |               | .20  | .80  |      |     | .10  |      | .15  | .10  | .40 |     |     |     |    |     | T.   |     |      |    |     |     |    |    |    |     |      |      |      | 1.10 | .20 |      |        |      | 3.50 | 6.55 |
| Winthrop College  |               |      | .16  | .37  |     | .19  | .16  | .29  | T.   | .35 |     |     |     |    |     | T.   |     |      |    | .09 |     |    |    |    |     |      |      |      | .70  | .38 | .08  |        | T.   | 1.62 | 4.39 |
| Yemas             |               |      |      |      |     |      |      |      |      |     |     |     |     |    |     |      |     |      |    |     |     |    |    |    |     |      |      |      |      |     |      |        |      |      |      |

T. indicates trace, less than . or inch.



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SC  
U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JUNE, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

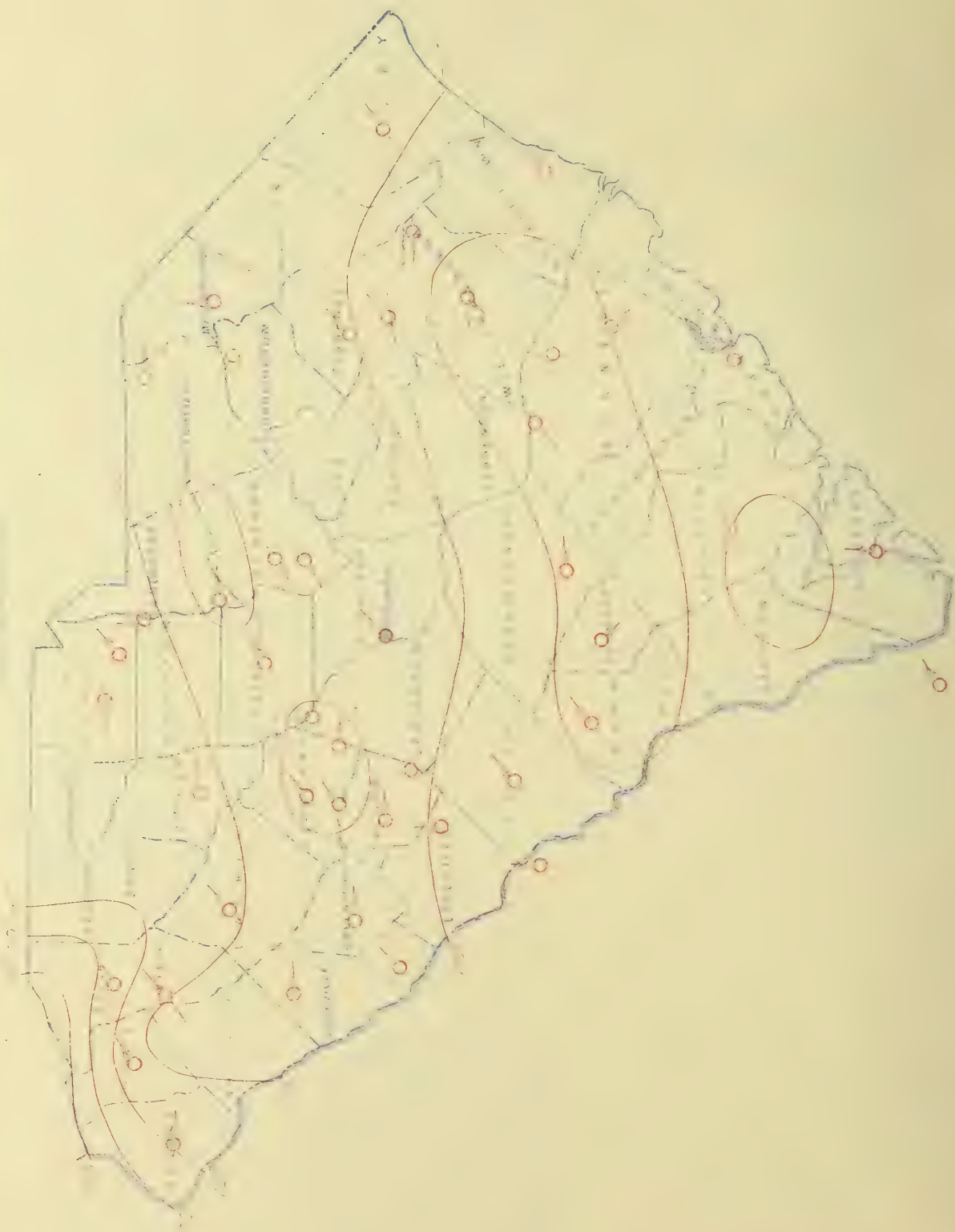
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

JULY 26, 1907.

MAP OF THE DISTRICT OF CANTON, CHINA, SHOWING THE LOCATIONS OF THE CHINESE AND FOREIGN SETTLEMENTS.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. X. COLUMBIA, S. C., JUNE, 1907. No. 6.

## GENERAL SUMMARY.

The mean temperature was the second lowest for any June since 1894. The daily mean temperatures were below normal during the first half of the first decade, the whole of the second decade, and the last half of the third decade.

The precipitation was above normal and was well distributed thruout the month, and also geographically except that small areas in the northeastern portion had excessive amounts.

The percentage of sunshine was approximately normal.

## TEMPERATURE.

The mean temperature for June, 1907, was 75.4°, which is 2.5° below normal. The highest local mean was 79.0° at Blackville and at St. George, the lowest was 70.0° at Greenville. The monthly extremes were 99° at Blackville on the 25th and at Florence on the 10th, and 47° at Walhalla on the 28th, making the State range 52°. The greatest local monthly range was 47° at Saluda, the least was 29° at Charleston and St. George. The mean of the daily maximum temperatures was 86.1°, and of the daily minimum temperatures was 64.8°, making the average daily range 21.3°.

## PRECIPITATION.

The average precipitation was 5.92 inches, which is 1.16 inches above normal. The greatest local monthly amount was 12.38 inches at Darlington, the least was 2.22 inches at Clemson College. The greatest 24-hour rainfall was 4.22 inches at Beaufort on the 28th-29th. The average number of days with 0.01 of an inch, or more, precipitation was 10, ranging from 4 at Calhoun Falls to 17 at Santuc.

**EXCESSIVE PRECIPITATION.**—At Beaufort on the 28th-29th, 4.22 inches in 24 hours; at Barksdale on the 1st, 3.90 inches in 24 hours; at Blackville on the 28th-29th, 3.82 inches in 18 hours and 50 minutes; at Camden on the 28th-29th, 2.70 inches in 24 hours; at Clarks Hill on the 28th, 3.09 inches in 12 hours; at Darlington on the 12th, 3.22 inches in 24 hours, and on the 29th, 3.93 inches in 24 hours; at Edisto on the 29th, 3.90 inches in 24 hours; at St. George on the 29th-30th, 2.56 inches in 23 hours; at St. Matthews on the 29th, 2.68 inches in 10 hours; at Walterboro on the 29th, 2.61 inches in 12 hours; at Winnsboro on the 27th, 2.90 inches in 24 hours; at Yemassee on the 29th, 3.07 inches in 12 hours.

## WIND.

The prevailing direction of the wind was from the southwest at 19 stations, from the south and west at 9 stations

each, from the northeast at 6 stations, from the east at 3 stations, from the northwest at 2 stations, and from the north at 1 station.

**HIGH WINDS.**—At Beaufort on the 13th; at Bowman, Newberry on the 5th; at Camden on the 2d, 5th, 13th, 26th; at Charleston on the 2d; at Columbia on the 1st; at Liberty on the 5th, 14th, 15th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 12, of partly cloudy days was 13, and of cloudy days was 5.

## MISCELLANEOUS PHENOMENA.

**SOLAR HALOS.**—At Camden on the 18th; Santuc on the 7th.

**LUNAR HALOS.**—At Charleston on the 18th; at Santuc on the 26th; at Society Hill on the 25th.

**DENSE FOGS.**—At Blackville on the 10th; at Bowman on the 22d; at Darlington on the 23d, 24th; at Liberty on the 10th; at Newberry on the 11th; at Santuc on the 24th.

**HAIL.**—At Beaufort, Pinopolis on the 2d; at Blackville on the 14th; at Bowman on the 5th, 10th, 13th; at Camden, Darlington, Effingham on the 10th, 11th; at Cheraw, Winthrop College on the 11th; at Columbia on the 1st; at Liberty on the 8th, 9th, 19th; at Society Hill on the 10th, 11th, 22d; at Summerville, Trial, Walterboro on the 10th.

**THUNDERSTORMS.**—There were 192 thunderstorms noted on 25 dates, as follows: At Barksdale on the 1st, 21st, 22d, 23d; at Batesburg on the 1st, 14th, 26th, 28th, 29th; at Beaufort on the 2d, 5th, 9th, 10th, 11th, 12th, 13th, 17th, 18th, 26th, 27th, 28th, 29th, 30th; at Blackville on the 1st, 10th, 14th, 27th, 28th, 29th, 30th; at Bowman on the 5th, 9th, 10th, 11th, 13th, 20th, 27th, 28th, 29th; at Camden on the 2d, 10th, 11th, 13th, 19th, 25th, 26th, 27th, 28th; at Charleston on the 2d, 5th, 9th, 10th, 11th, 12th, 13th, 18th, 22d, 26th, 27th, 29th; at Cheraw on the 2d, 3d, 10th, 11th, 13th, 14th, 19th, 22d, 24th, 27th, 28th; at Columbia on the 1st, 9th, 10th, 13th, 25th, 26th, 27th, 29th, 30th; at Darlington on the 3d, 10th, 11th; at Georgetown on the 1st, 2d, 5th, 9th; at Greenville on the 8th, 9th, 13th, 21st, 22d, 23d, 27th, 29th; at Liberty on the 1st, 8th, 9th, 11th, 12th, 13th, 19th, 20th, 21st, 23d, 27th, 28th, 29th; at Newberry on the 1st, 8th, 9th, 11th, 19th, 22d, 23d, 24th, 27th, 28th, 29th; at Pinopolis on the 2d, 5th, 10th, 13th; at Saluda on the 1st, 2d, 13th, 23d, 24th, 28th; at Santuc on the 8th, 9th, 11th, 13th, 19th, 21st, 22d, 23d, 24th, 25th, 27th, 28th, 29th; at Society Hill on the 1st, 2d, 9th, 10th, 11th, 13th, 21st, 22d, 26th, 27th, 28th; at Spartanburg on the 23d, 24th, 27th, 28th; at Summerville on the 1st, 2d, 9th, 10th, 11th, 14th; at Trenton on the 8th, 9th, 10th, 11th, 13th, 19th, 24th, 26th, 27th, 28th; at Trial on the 5th, 9th, 10th, 13th, 19th; at Walterboro on the 10th, 11th; at Winthrop College on the 11th, 12th, 13th, 21st, 28th; at Yorkville on the 2d, 11th, 19th, 20th, 23d, 28th.

## ERRATA.

The following changes should be made in the April, 1907, number of the Monthly Report, namely: On page 29, the monthly mean temperature at Stateburg, 58.0°, should be 58.1°; on page 30, at Due West the maximum temperature on the 20th, 64°, should be 68°, and the mean maximum, 67.2°, should be 67.3°; at Stateburg, the maximum temperature on the 10th, 57°, should be 58°, and on the 24th, 73°, should be 76°; and the mean maximum, 69.7°, should be 69.8°. On pages 29 and 32, at Aiken, the total precipitation, 3.15, should be 4.15; at Saluda, the total precipitation, 3.16, should be 2.86.



BAROMETER AND WIND TABLE FOR JUNE, 1907.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 29.94      | 30.20    | 17    | 29.50   | 1     | 4.126           | 5.7             | 32                | SW.        | 5     |
| Charleston        | 29.96      | 30.19    | 23    | 29.51   | 2     | 7.367           | 10.2            | 30                | W.         | 2     |
| Charlotte, N. C.  | 29.96      | 30.28    | 17    | 29.50   | 2     | 4.165           | 5.8             | 31                | W.         | 5     |
| Columbia          | 29.95      | 30.23    | 17    | 29.48   | 2     | 4.457           | 6.2             | 40                | SW.        | 1     |
| Savannah, Ga.     | 29.97      | 30.19    | 23    | 29.54   | 1     | 5.462           | 7.6             | 34                | N.         | 13    |
| Wilmington, N. C. | 29.96      | 30.23    | 17    | 29.45   | 2     | 5.589           | 7.8             | 38                | N.         | 11    |
| Averages.         | 29.96      | 30.28    | 17    | 29.45   | 2     | 5.231           | 7.2             | 40                | SW.        | 1     |

RIVER GAGE READINGS, JUNE, 1907.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 2.5   | 9.5      | 2     | 0.1     | 22    |
| Calhoun Falls    | 3.3   | 4.9      | 2     | 2.7     | *25   |
| Camden           | 11.2  | 24.8     | 3     | 5.2     | 24    |
| Catawba          | 4.0   | 11.6     | 3     | 2.2     | 22    |
| Chappells        | 4.1   | 10.2     | 2     | 2.1     | *19   |
| Cheraw           | 8.8   | 22.3     | 4     | 2.8     | *1    |
| Columbia         | 2.5   | 9.0      | 3     | 0.9     | *9    |
| Edisto           | 3.5   | 5.3      | 4     | 1.8     | 28    |
| Effingham        | 6.9   | 8.8      | 21    | 5.0     | 27    |
| Kingsree         | 3.6   | 4.4      | 15    | 3.0     | *20   |
| Mt. Holly, N. C. | 2.4   | 5.0      | 12    | 1.9     | *22   |
| Pelzer           | 3.0   | 4.5      | 2     | 2.6     | *17   |
| Rimini           | 10.5  | 13.5     | *8    | 6.5     | 24    |
| St. Stephens     | 7.5   | 9.0      | *13   | 5.0     | 26    |
| Smith Mills      | 11.2  | 13.1     | 21    | 0.6     | 2     |

\* On other dates also.

## REMARKS BY OBSERVERS.

BOWMAN.—The sunshine was above normal. The rainfall was excessive during the latter part of the month. Hail fell on three dates and did some damage over small areas.—B. O. Evans. BARKSDALE.—The rainfall was excessive during the last decade. The temperature was favorable thruout the month.—J. T. Garrett. GREENVILLE.—During the thunderstorms on the 9th, there was a continuous roar of thunder lasting for 45 minutes.—Mrs. S. A. Crittenden. HEATH SPRING.—The weather was favorable thruout the month.—J. A. Weaner. LIBERTY.—The weather was warm and humid thruout the month, and was very favorable.—Jno. T. Boggs. SANTUC.—The month was rainy, but the rainfall was light until the last decade when heavy rains occurred that damaged lands by washing; otherwise the weather was favorable.—E. W. Jeter.

SOCIETY HILL.—Destructive hail fell on the 10th and 11th. The month was deficient in warmth and had excessive rainfall.—Maj. J. J. Lucas. TRENTON.—The precipitation since January 1st is 4.92 inches less than the normal for the first six months.—C. A. Long.

## PRECIPITATION DATA FOR CAMDEN, S. C.

## Monthly and Annual Precipitation.

| Year  | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|-------|
| 1866. | 1.43 | 2.43 | 1.43 | 4.89 | 5.61 | 4.00  | 2.52  | 3.20  | 0.80  | 2.62 | 1.46 | 2.69 | 33.08 |
| 1867. | 2.12 | 2.08 | 2.85 | 2.71 | 2.73 | 5.52  | 1.24  | 0.22  | 4.58  | 5.33 | 1.97 | 2.92 | 34.27 |
| 1868. | 5.89 | 4.65 | 1.76 | 6.40 | 1.61 | 1.84  | 8.40  | 7.26  | 4.61  | 3.47 | 0.00 | 5.21 | 51.10 |
| 1869. | 2.48 | 3.22 | 2.12 | 1.31 | 1.93 | 1.79  | 4.22  | 2.52  | 1.11  | 0.35 | 2.38 | 6.67 | 30.10 |
| 1870. | 2.85 | 3.83 | 6.60 | 3.00 | 3.57 | 4.68  | 4.54  | 5.29  | 1.22  | 5.60 | 1.59 | 2.98 | 45.83 |
| 1871. | 0.97 | 7.07 | 2.77 | 3.02 | 5.12 | 3.39  | 2.09  | 4.96  | 1.82  | 2.77 | 4.19 | 2.17 | 40.34 |
| 1872. | 2.44 | 6.28 | 5.31 | 1.05 | 1.70 | 4.91  | 4.53  | 3.80  | 2.47  | 1.83 | 2.23 | 2.00 | 38.55 |
| 1873. | 2.67 | 4.59 | 1.26 | 2.06 | 6.53 | 2.44  | 4.62  | 9.94  | 8.51  | 0.51 | 2.57 | 2.19 | 48.19 |
| 1874. | 2.36 | 4.82 | 3.76 | 7.70 | 1.80 | 6.23  | 7.22  | 2.36  | 5.03  | 1.40 | 1.94 | 2.77 | 47.39 |
| 1875. | 4.96 | 4.99 | 6.03 | 3.81 | 4.32 | 2.31  | 5.49  | 5.08  | 3.68  | 1.10 | 3.16 | 3.86 | 48.79 |
| 1876. | 0.60 | 3.60 | 2.83 | 3.46 | 2.66 | 7.43  | 6.60  | 1.82  | 4.46  | 1.78 | 2.61 | 3.33 | 41.18 |
| 1877. | 2.83 | 2.34 | 4.46 | 1.83 | 1.32 | 3.20  | 4.67  | 1.29  | 6.76  | 3.32 | 4.37 | 4.80 | 44.16 |
| 1878. | 4.41 | 0.76 | 0.63 | 3.34 | 1.58 | 4.98  | 6.42  | 14.75 | 6.82  | 1.32 | 2.68 | 3.31 | 51.00 |
| 1879. | 1.76 | 3.06 | 2.35 | 3.74 | 2.23 | 1.49  | 4.60  | 4.39  | 2.07  | 1.42 | 1.33 | 1.93 | 30.37 |
| 1880. | 1.65 | 2.56 | 2.52 | 4.72 | 0.48 | 1.96  | 7.30  | 2.96  | 4.13  | 1.34 | 4.03 | 2.67 | 36.34 |
| 1881. | 5.55 | 3.77 | 4.05 | 3.78 | 1.04 | 0.58  | 0.39  | 3.66  | 3.95  | 2.77 | 2.55 | 3.61 | 35.70 |
| 1882. | 3.13 | 2.11 | 4.18 | 3.78 | 3.86 | 3.98  | 2.98  | 8.43  | 3.87  | 2.71 | 2.93 | 5.23 | 47.19 |
| 1883. | 5.79 | 1.64 | 3.77 | 3.93 | 3.74 | 4.64  | 1.65  | 2.72  | 2.77  | 2.74 | 2.73 | 1.79 | 37.91 |
| 1884. | 5.35 | 2.73 | 4.73 | 3.82 | 3.54 | 3.19  | 5.54  | 1.77  | 4.71  | 0.04 | 1.11 | 4.02 | 40.55 |
| 1885. | 6.22 | 3.65 | 1.40 | 1.52 | 5.02 | 5.36  | 5.85  | 2.80  | 5.34  | 2.89 | 3.64 | 3.29 | 46.78 |
| 1886. | 2.61 | 1.59 | 3.40 | 3.01 | 5.66 | 7.07  | 4.78  | 2.78  | 2.19  | 0.39 | 0.92 | 2.19 | 36.59 |
| 1887. | 3.13 | 2.27 | 1.37 | 1.91 | 2.14 | 1.92  | 4.13  | 2.23  | 0.86  | 7.23 | 0.55 | 3.54 | 31.28 |
| 1888. | 2.25 | 3.24 | 6.83 | 1.26 | 9.15 | 2.80  | 2.70  | 2.00  | 6.62  | 3.67 | 1.50 | 4.26 | 41.78 |
| 1889. | 5.03 | 3.98 | 3.20 | 0.54 | 1.92 | 5.15  | 9.95  | 7.74  | 4.03  | 3.91 | 3.40 | 0.88 | 49.82 |
| 1890. | 0.68 | 2.29 | 3.32 | 1.74 | 4.25 | 2.72  | 6.32  | 3.95  | 6.12  | 3.40 | 1.05 | 2.02 | 37.86 |
| 1891. | 3.72 | 2.44 | 4.17 | 3.35 | 5.62 | 3.80  | 6.23  | 5.04  | 4.79  | 2.06 | 1.73 | 1.47 | 44.42 |
| 1892. | 7.33 | 6.55 | 3.96 | 1.45 | 1.61 | 2.72  | 4.00  | 2.79  | 4.02  | 6.57 | 0.93 | 2.52 | 38.25 |
| 1893. | 2.36 | 5.93 | 1.18 | 0.48 | 5.50 | 7.11  | 2.93  | 8.70  | 1.99  | 4.13 | 1.97 | 3.63 | 44.43 |
| 1894. | 2.41 | 4.60 | 1.71 | 1.56 | 1.81 | 2.00  | 3.97  | 6.39  | 5.52  | 5.77 | 1.85 | 2.56 | 44.24 |
| 1895. | 8.09 | 3.42 | 6.36 | 6.05 | 3.05 | 7.04  | 2.68  | 7.48  | 0.92  | 1.68 | 1.79 | 2.91 | 51.50 |
| 1896. | 2.63 | 6.38 | 2.44 | 0.72 | 3.06 | 3.55  | 9.68  | 2.68  | 2.52  | 0.42 | 2.88 | 4.05 | 41.01 |
| 1897. | 1.73 | 8.18 | 3.23 | 3.12 | 3.68 | 7.03  | 5.91  | 3.18  | 3.33  | 2.08 | 2.11 | 1.92 | 45.53 |
| 1898. | 1.83 | 1.01 | 3.45 | 4.88 | 0.85 | 4.91  | 11.66 | 13.55 | 3.31  | 3.41 | 4.70 | 1.54 | 55.06 |
| 1899. | 5.32 | 9.28 | 4.23 | 2.76 | 0.53 | 3.14  | 5.59  | 6.42  | 3.34  | 6.75 | 2.50 | 2.79 | 52.56 |
| 1900. | 1.85 | 6.10 | 4.97 | 7.17 | 1.67 | 6.10  | 6.42  | 2.31  | 1.65  | 2.90 | 4.62 | 6.03 | 51.79 |
| 1901. | 3.75 | 2.52 | 6.49 | 5.14 | 6.28 | 6.34  | 3.69  | 9.75  | 8.24  | 0.44 | 0.63 | 5.37 | 58.05 |
| 1902. | 1.97 | 4.67 | 3.69 | 1.98 | 4.62 | 5.46  | 3.56  | 5.43  | 2.25  | 4.31 | 2.95 | 4.28 | 45.17 |
| 1903. | 2.84 | 7.87 | 6.44 | ...  | 3.59 | 9.55  | 3.46  | 7.77  | 4.21  | 3.49 | 1.42 | 1.91 | ...   |
| 1904. | 3.50 | 3.86 | 3.61 | 1.41 | 1.46 | 3.65  | 6.51  | 5.11  | 1.76  | 1.40 | 3.12 | 2.57 | 37.90 |
| 1905. | ...  | 3.95 | 2.05 | 3.79 | 5.40 | 0.48  | 5.10  | 7.74  | 2.02  | 1.60 | 1.12 | 2.78 | ...   |
| 1906. | 4.55 | 2.34 | 5.87 | 1.70 | 4.30 | 8.13  | 6.94  | 5.12  | 3.76  | 5.46 | 0.52 | 2.48 | 51.17 |
| Mean  | 3.33 | 3.97 | 3.58 | 3.18 | 3.33 | 4.28  | 5.02  | 5.05  | 3.71  | 2.69 | 2.26 | 3.33 | 43.73 |

## Extremes of Precipitation.

| Month.   | Greatest Monthly. | Year. | Least Monthly. | Year. | Month.  | Greatest Monthly. | Year. | Least Monthly. | Year. |
|----------|-------------------|-------|----------------|-------|---------|-------------------|-------|----------------|-------|
| January  | 8.09              | 1895  | 0.60           | 1876  | July    | 11.66             | 1898  | 0.39           | 1881  |
| February | 9.28              | 1899  | 0.76           | 1878  | August  | 14.75             | 1878  | 0.22           | 1867  |
| March    | 6.83              | 1888  | 0.63           | 1878  | Sept.   | 8.24              | 1901  | 0.80           | 1866  |
| April    | 7.70              | 1874  | 3.48           | 1893  | October | 6.75              | 1899  | 0.04           | 1884  |
| May      | 9.15              | 1888  | 0.48           | 1905  | Nov.    | 4.70              | 1898  | 0.00           | 1868  |
| June     | 9.55              | 1903  | 0.48           | 1905  | Dec.    | 7.78              | 1905  | 1.47           | 1891  |

## COMPARATIVE JUNE DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |               |                |                  | Number Rainy Days. | Prevailing Wind Direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|---------------|----------------|------------------|--------------------|----------------------------|
|           | Mean.        | Mean Maximum. | Mean Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |               | Least Monthly. |                  |                    |                            |
|           |              |               |               |          |          |                | Amount.           | Place.        | Amount.        | Place.           |                    |                            |
| 1894..... | 77.0         | 88.8          | 65.9          | 105      | 41       | 3.91           | 9.20              | McCormick.    | 0.25           | Kingstree.       | 8                  | SW.                        |
| 1895..... | 78.2         | 89.0          | 68.2          | 105      | 50       | 3.04           | 7.04              | Camden.       | 0.25           | Shaw's Fork.     | 8                  | SW.                        |
| 1896..... | 77.9         | 87.6          | 68.3          | 102      | 52       | 5.42           | 10.45             | Georgetown.   | 1.94           | Clemson College. | 12                 | SW.                        |
| 1897..... | 79.2         | 89.9          | 68.8          | 103      | 49       | 5.44           | 11.75             | Pinopolis.    | 1.82           | Mt. Carmel.      | 12                 | SW.                        |
| 1898..... | 79.7         | 91.5          | 67.9          | 105      | 55       | 4.15           | 10.68             | Pinopolis.    | 1.58           | Central.         | 8                  | SW.                        |
| 1899..... | 79.4         | 90.5          | 68.3          | 105      | 48       | 3.89           | 8.55              | Blackville.   | 1.38           | Santee.          | 8                  | SW.                        |
| 1900..... | 76.2         | 85.0          | 67.3          | 97       | 52       | 7.94           | 15.43             | Holland.      | 4.15           | Trenton.         | 14                 | SW.                        |
| 1901..... | 76.7         | 86.0          | 67.4          | 102      | 48       | 6.55           | 11.92             | Pinopolis.    | 3.60           | Wallhalla.       | 12                 | SW.                        |
| 1902..... | 78.5         | 89.6          | 67.4          | 105      | 52       | 4.48           | 8.11              | Trenton.      | 1.39           | Cheraw.          | 9                  | SW.                        |
| 1903..... | 74.2         | 84.1          | 64.2          | 96       | 42       | 8.09           | 18.42             | Stateburg.    | 3.95           | Due West.        | 14                 | SW.                        |
| 1904..... | 77.0         | 88.7          | 65.4          | 102      | 48       | 4.06           | 11.17             | Edgingham.    | 0.55           | Aiken.           | 8                  | SW.                        |
| 1905..... | 78.9         | 89.9          | 67.9          | 101      | 43       | 1.92           | 6.30              | Walhalla.     | 0.17           | Little Mountain. | 6                  | E.                         |
| 1906..... | 78.4         | 88.5          | 68.2          | 102      | 52       | 8.88           | 16.13             | Smiths Mills. | 4.28           | Greenville.      | 12                 | SW.                        |
| 1907..... | 75.4         | 86.1          | 64.8          | 99       | 47       | 5.92           | 12.38             | Darlington.   | 2.22           | Clemson College. | 10                 | SW.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1907.

| STATIONS                              | Counties     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                            |                       | Sky                         |                    |                    |                            |                       | Observers |                               |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|----------------------------|-----------------------|-----------------------------|--------------------|--------------------|----------------------------|-----------------------|-----------|-------------------------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snow fall, unmelting. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. |           | Prevailing direction of wind. |
| Aiken                                 | Aiken        | 565             | 23                      | 76.7                               | -2.1                       | 97       | 9     | 55      | *3    | 37                       | 4.92   | +0.56                      | 2.10                  | 0                           | 6                  | 17                 | 12                         | 1                     | sw.       | C. F. McGahan, M. D.          |
| Allendale                             | Barnwell     | 186             | 10                      | 78.2                               | +0.5                       | 95       | 25    | 59      | 3     | 29                       | 7.01   | +2.46                      | 2.20                  | 0                           | 8                  | 22                 | 0                          | 8                     | ...       | A. R. Hiers.                  |
| Anderson                              | Anderson     | 704             | 6                       | 74.0                               | -1.9                       | 94       | 21    | 51      | 3     | 33                       | 4.01   | -1.42                      | 1.13                  | 0                           | 8                  | 19                 | 1                          | 10                    | ...       | H. H. Russell.                |
| Augusta, Ga.                          | Richmond     | 134             | 36                      | 76.8                               | -1.3                       | 96       | 9     | 56      | 7     | 34                       | 3.58   | -1.02                      | 2.05                  | 0                           | 9                  | 18                 | 11                         | 1                     | ...       | Weather Bureau.               |
| Barksdale                             | Laurens      | 680             | 6                       | 73.8                               | ...                        | 95       | 28    | 53      | 3     | 30                       | 7.08   | ...                        | 3.90                  | 0                           | 10                 | 14                 | 15                         | 1                     | sw.       | J. T. Garrett.                |
| Batesburg                             | Lexington    | 656             | 19                      | 75.8                               | -3.0                       | 96       | 22    | 54      | *3    | 33                       | 4.06   | +0.40                      | 1.03                  | 0                           | 8                  | ...                | ...                        | ...                   | n.        | E. J. Hite.                   |
| Beaufort                              | Beaufort     | 20              | 21                      | 77.4                               | -3.0                       | 95       | 9     | 62      | 2     | 28                       | 6.83   | +1.75                      | 4.22                  | 0                           | 10                 | 14                 | 13                         | 3                     | ...       | S. M. Benton.                 |
| Bennettsville                         | Marlboro     | 151             | 6                       | 75.2                               | ...                        | 93       | *21   | 55      | 7     | 32                       | 5.58   | ...                        | 1.10                  | 0                           | 12                 | 14                 | 12                         | 4                     | ...       | C. S. McCall.                 |
| Blackville                            | Barnwell     | 296             | 19                      | 79.0                               | -1.1                       | 99       | 25    | 56      | 3     | 32                       | 7.29   | +2.04                      | 3.50                  | 0                           | 7                  | ...                | ...                        | ...                   | sw.       | G. D. C. Lange.               |
| Blairs                                | Fairfield    | 293             | 2                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 6.04   | ...                        | 2.00                  | 0                           | 6                  | 16                 | 6                          | 8                     | ...       | T. S. McMeekin.               |
| Bowman                                | Orangeburg   | 160             | 6                       | 77.2                               | ...                        | 97       | 26    | 57      | 3     | 33                       | 5.02   | ...                        | 2.18                  | 0                           | 8                  | 19                 | 10                         | 1                     | w.        | B. O. Evans.                  |
| Calhoun Falls                         | Abbeville    | 508             | 14                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 4.10   | +0.09                      | 2.05                  | 0                           | 4                  | 22                 | 0                          | 8                     | sw.       | P. J. Pfeiffer.               |
| Camden (1)                            | Kershaw      | ...             | 2                       | 74.3                               | ...                        | 92       | 25    | 55      | 6     | 32                       | 5.82   | ...                        | 1.37                  | 0                           | 13                 | 16                 | 10                         | 4                     | ne.       | J. B. Mickle.                 |
| Camden (2)                            | Kershaw      | *22             | 41                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 6.35   | +2.26                      | 2.00                  | 0                           | 9                  | 17                 | 6                          | 7                     | ne.       | W. C. Brown.                  |
| Catawba                               | York         | ...             | 2                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 8.36   | ...                        | 3.38                  | 0                           | 6                  | 12                 | 6                          | 12                    | ...       | James Y. Brice.               |
| Chappells                             | Newberry     | 402             | 2                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 4.98   | ...                        | 1.80                  | 0                           | 8                  | ...                | ...                        | ...                   | sw.       | J. A. Meldan.                 |
| Charleston                            | Charleston   | 48              | 38                      | 76.9                               | -1.6                       | 90       | 8     | 61      | 3     | 21                       | 4.58   | -1.07                      | 3.42                  | 0                           | 13                 | 13                 | 15                         | 2                     | sw.       | Weather Bureau.               |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 29                      | 72.7                               | -2.8                       | 92       | 21    | 55      | 6     | 29                       | 4.19   | -0.40                      | 1.14                  | 0                           | 13                 | 10                 | 9                          | 11                    | ne.       | Weather Bureau.               |
| Cheraw (1)                            | Chesterfield | 141             | 19                      | 74.2                               | -4.0                       | 93       | 26    | 56      | 15    | 26                       | 8.55   | +3.46                      | 1.40                  | 0                           | 13                 | 13                 | 1                          | 16                    | ...       | W. R. Godfrey.                |
| Cheraw (2)                            | ...          | 144             | 14                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 8.43   | +2.42                      | 1.52                  | 0                           | 15                 | 13                 | 10                         | 7                     | w.        | Jno. H. Powe.                 |
| Clarks Hill                           | Edgefield    | 500             | 5                       | 77.3                               | ...                        | 97       | 26    | 54      | *3    | 37                       | 5.27   | ...                        | 3.09                  | 0                           | 6                  | 9                  | 11                         | 10                    | ...       | Wm. S. Middleton.             |
| Clemson College                       | Oconee       | 850             | 16                      | 73.0                               | -4.1                       | 90       | 26    | 54      | 7     | 29                       | 2.22   | -3.54                      | 0.75                  | 0                           | 7                  | 20                 | 8                          | 2                     | s.        | Jno. N. Hook.                 |
| Columbia                              | Richland     | 351             | 20                      | 75.8                               | -2.4                       | 94       | 26    | 56      | 3     | 31                       | 2.63   | -1.53                      | 0.97                  | 0                           | 9                  | 7                  | 15                         | 8                     | sw.       | Central Office.               |
| Conway                                | Horry        | 25              | 15                      | 75.2                               | ...                        | 93       | 27    | 56      | 7     | 33                       | 10.21  | +5.40                      | 1.70                  | 0                           | 13                 | 16                 | 6                          | 8                     | sw.       | P. C. Quattlebaum.            |
| Darlington                            | Darlington   | 175             | 12                      | 74.4                               | ...                        | 95       | *26   | 55      | 8     | 35                       | 12.38  | +6.14                      | 3.93                  | 0                           | 12                 | ...                | ...                        | ...                   | ...       | D. C. McCall.                 |
| Dillon                                | Marion       | 100             | 3                       | 74.7                               | ...                        | 95       | *25   | 50      | 6     | 37                       | 6.55   | ...                        | 2.00                  | 0                           | 12                 | ...                | ...                        | ...                   | ...       | A. E. Rowell.                 |
| Due West                              | Abbeville    | 730             | 6                       | 74.2                               | ...                        | 91       | 22    | 55      | 6     | 28                       | 5.07   | ...                        | 1.22                  | 0                           | 7                  | 14                 | 7                          | 9                     | w.        | Rev. O. Y. Bonner.            |
| Edisto                                | Bamberg      | 127             | 14                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 10.90  | +5.49                      | 3.90                  | 0                           | 8                  | 14                 | 8                          | 8                     | nw.       | Mrs. M. Thompson.             |
| Ellingham                             | Florence     | 106             | 15                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 8.90   | +4.09                      | 2.00                  | 0                           | 11                 | 20                 | 2                          | 8                     | sw.       | H. B. McCall.                 |
| Florence                              | Florence     | 136             | 19                      | 76.2                               | -2.8                       | 99       | 10    | 57      | *7    | 35                       | 7.21   | +1.67                      | 1.82                  | 0                           | 10                 | 16                 | 2                          | 12                    | sw.       | H. K. Gilbert.                |
| Georgetown                            | Georgetown   | 12              | 14                      | 77.6                               | -1.3                       | 93       | 8     | 62      | *6    | 24                       | 4.88   | -1.24                      | 2.00                  | 0                           | 9                  | 19                 | 11                         | 0                     | sw.       | Reid Whitford.                |
| Greenville                            | Greenville   | 989             | 15                      | 70.0                               | -4.1                       | 87       | *20   | 49      | 3     | 29                       | 6.90   | +1.56                      | 2.36                  | 0                           | 13                 | 19                 | 4                          | 7                     | sw.       | Mrs. S. A. Crittenden.        |
| Greenwood                             | Greenwood    | 671             | 19                      | 74.4                               | -4.2                       | 93       | 21    | 55      | *3    | 31                       | 6.32   | +2.19                      | 2.20                  | 0                           | 10                 | 22                 | 0                          | 8                     | w.        | W. M. Calhoun.                |
| Heath Spring                          | Lancaster    | 568             | 6                       | 76.6                               | ...                        | 94       | *21   | 58      | 7     | 26                       | 5.27   | ...                        | 1.54                  | 0                           | 11                 | 9                  | 16                         | 5                     | w.        | J. A. Wanner.                 |
| Kingstree (1)                         | Williamsburg | 54              | 19                      | 78.2                               | -0.4                       | 94       | *25   | 62      | 3     | 23                       | 6.11   | +1.07                      | 1.40                  | 0                           | 10                 | 17                 | 9                          | 4                     | ne.       | J. A. Scott.                  |
| Kingstree (2)                         | ...          | 51              | 13                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 6.79   | +1.73                      | 1.75                  | 0                           | 11                 | 16                 | 4                          | 10                    | e.        | A. O. Matthews.               |
| Liberty                               | Pickens      | 900             | 13                      | 74.0                               | -3.2                       | 93       | 22    | 50      | 7     | 33                       | 4.20   | -0.79                      | 1.03                  | 0                           | 11                 | 11                 | 17                         | 2                     | sw.       | Jno. T. Boggs.                |
| Little Mountain                       | Newberry     | 630             | 14                      | 76.0                               | -2.8                       | 96       | *21   | 55      | 3     | 30                       | 2.68   | -1.79                      | 1.05                  | 0                           | 9                  | 3                  | 24                         | 3                     | w.        | John M. Sease, M. D.          |
| Newberry                              | Newberry     | 502             | 3                       | 76.2                               | -1.2                       | 96       | *26   | 54      | *6    | 35                       | 2.90   | -1.24                      | 0.80                  | 0                           | 11                 | 4                  | 18                         | 8                     | sw.       | W. G. Peterson.               |
| Pelzer                                | Anderson     | 873             | 2                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 4.40   | ...                        | 1.76                  | 0                           | 9                  | 15                 | 6                          | 9                     | ne.       | John M. Ward.                 |
| Pinopolis                             | Berkeley     | 54              | 14                      | 78.6                               | +3.6                       | 90       | *25   | 62      | 3     | ...                      | 4.44   | -3.39                      | 1.50                  | 0                           | 6                  | 8                  | 14                         | 8                     | nw.       | E. P. Ravenel.                |
| St. George                            | Dorchester   | 109             | 19                      | 79.0                               | +0.8                       | 93       | 9     | 64      | 3     | 21                       | 1.91   | -0.57                      | 2.56                  | 0                           | 10                 | 24                 | 0                          | 6                     | ...       | G. T. Lewis.                  |
| St. Matthews                          | Orangeburg   | 269             | 19                      | 74.8                               | -4.2                       | 91       | 25    | 57      | 3     | 24                       | 8.60   | +3.30                      | 1.60                  | 0                           | 8                  | 23                 | 0                          | 7                     | ...       | J. S. Wamamaker.              |
| St. Stephen                           | Berkeley     | 73              | 15                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 7.02   | +0.71                      | 1.75                  | 0                           | 12                 | 17                 | 2                          | 11                    | s.        | C. T. Shuler.                 |
| Saluda                                | Saluda       | 536             | 6                       | 75.4                               | ...                        | 97       | 21    | 50      | 9     | 59                       | 3.32   | ...                        | 1.07                  | 0                           | 10                 | 17                 | 1                          | 11                    | w.        | Alvin Etheridge.              |
| Santuc                                | Union        | 512             | 13                      | 73.3                               | -3.4                       | 95       | 20    | 55      | *3    | 35                       | 4.30   | +0.42                      | 2.00                  | 0                           | 17                 | 5                  | 19                         | 6                     | w.        | E. W. Jeter.                  |
| Savannah, Ga.                         | Chatham      | 71              | 38                      | 77.5                               | -0.7                       | 96       | 9     | 62      | 3     | 25                       | 8.44   | +1.83                      | 5.48                  | 0                           | 9                  | 14                 | 13                         | 3                     | sw.       | Weather Bureau.               |
| Smiths Mills                          | Williamsburg | 62              | 12                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 4.50   | -1.42                      | 1.78                  | 0                           | 10                 | 16                 | 0                          | 14                    | e.        | H. van Keuren.                |
| Society Hill                          | Darlington   | 192             | 16                      | 74.8                               | -2.4                       | 92       | 26    | 55      | 6     | 28                       | 7.25   | +1.67                      | 1.42                  | 0                           | 13                 | 12                 | 10                         | 8                     | sw.       | J. J. Lucas.                  |
| Spartanburg                           | Spartanburg  | 875             | 16                      | 73.8                               | -4.2                       | 95       | 26    | 52      | 6     | 32                       | 8.28   | +3.94                      | 3.60                  | 0                           | 12                 | 14                 | 4                          | 12                    | ...       | F. P. Robinson.               |
| Stateburg                             | Sumter       | 500             | 30                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 3.70   | -1.28                      | 2.46                  | 0                           | 10                 | 9                  | 14                         | 7                     | ...       | W. W. Anderson, M. D.         |
| Summerville                           | Dorchester   | 75              | 10                      | 76.8                               | +0.1                       | 95       | 26    | 53      | 3     | 35                       | 3.70   | -1.28                      | 2.46                  | 0                           | 10                 | 9                  | 14                         | 7                     | ...       | Miss E. H. Gadsden.           |
| Sumter                                | Sumter       | 169             | 6                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | 2.66   | -1.66                      | 1.31                  | 0                           | 6                  | 13                 | 16                         | 1                     | s.        | T. M. Bradley.                |
| Trenton                               | Edgefield    | 620             | 14                      | 76.0                               | -3.5                       | 95       | 26    | 55      | 3     | 33                       | 2.66   | -1.66                      | 1.31                  | 0                           | 6                  | 13                 | 16                         | 1                     | ...       | C. A. Long.                   |
| Trial                                 | Berkeley     | 85              | 21                      | 78.2                               | +1.6                       | 93       | *25   | 55      | 7     | 33                       | 5.33   | -0.60                      | 2.12                  | 0                           | 8                  | 5                  | 18                         | 7                     | ne.       | Etsell Gaillard.              |
| Walhalla                              | Oconee       | 1061            | 16                      | 72.2                               | -3.1                       | 93       | 22    | 47      | 28    | 33                       | 4.55   | -0.37                      | 1.35                  | 0                           | 8                  | 3                  | 26                         | 1                     | w.        | Miss Jessie Douthit.          |
| Walterboro                            | Colleton     | 69              | 4                       | 76.5                               | ...                        | 96       | 9     | 58      | 7     | 31                       | 5.84   | ...                        | 2.61                  | 0                           | 13                 | 11                 | 18                         | 1                     | ...       | J. A. Westenberg.             |
| Wilmington, N. C.                     | New Hanover  | 52              | 38                      | 73.2                               | -2.3                       | 88       | 30    | 56      | 3     | 25                       | 9.83   | +4.13                      | 3.65                  | 0                           | 13                 | 10                 | 18                         | 2                     | sw.       | Weather Bureau.               |
| Winnsboro                             | Fairfield    | 545             | 18                      | 75.1                               | -1.4                       | 94       | 26    | 57      | 6     | 27                       | 5.73   | +1.58                      | 2.90                  | 0                           | 9                  | 8                  | 21                         | 1                     | sw.       | John W. Seigler.              |
| Winthrop College                      | York         | 690             | 8                       | 73.6                               | -3.2                       | 92       | 20    | 54      | 6     | 30                       | 6.09   | +1.52                      | 1.18                  | 0                           | 13                 | 13                 | 11                         | 5                     | sw.       | E. R. Rivers.                 |
| Yemassee                              | Beaufort     | 23              | 12                      | 75.6                               | -5.5                       | 92       | 25    | 60      | *4    | 29                       | 6.12   | +0.13                      | 3.07                  | 0                           | 11                 | 22                 | 2                          | 6                     | ...       | J. G. Hutson.                 |
| Yorkville                             | York         | 680             | 19                      | 75.4                               | -1.7                       | 93       | *25   | 54      | 6     | 30                       | 5.46   | +0.47                      | 1.61                  | 0                           | 15                 | 3                  | 11                         | 16                    | e.        | J. R. Schorb.                 |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 75.4                               | -2.5                       | 99       | 10    | 50      | *6    | 59                       | 5.92   | +1.16                      | 5.48                  | 0                           | 10                 | 12                 | 13                         | 5                     | sw.       |                               |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard.

\* On other dates also a indicates 1 day missing, b, 2 days, etc. The state of sky at 8 a.m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JUNE, 1907.

[illegible]

At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.

The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.





## DAILY PRECIPITATION FOR SOUTH CAROLINA, JUNE, 1907.

| STATIONS.         | Day of Month. |      |      |    |     |     |     |      |      |      |     |      |      |      |      |    |    |     |     |     |     |     |     |      |     |     |     |      |      |      |      | Total. |      |      |
|-------------------|---------------|------|------|----|-----|-----|-----|------|------|------|-----|------|------|------|------|----|----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|------|------|------|--------|------|------|
|                   | 1             | 2    | 3    | 4  | 5   | 6   | 7   | 8    | 9    | 10   | 11  | 12   | 13   | 14   | 15   | 16 | 17 | 18  | 19  | 20  | 21  | 22  | 23  | 24   | 25  | 26  | 27  | 28   | 29   | 30   | 31   |        |      |      |
| Aiken             | .75           |      |      |    |     |     |     |      | .93  |      |     |      | .82  |      |      |    |    |     |     |     |     |     |     |      |     |     |     | .12  | 2.10 | .20  |      | 4.92   |      |      |
| Allendale         | .12           |      |      |    |     | .12 |     |      |      | .12  |     |      | 2.20 |      |      |    |    |     |     |     |     |     |     |      |     |     | .63 | 1.65 |      | 1.70 | .47  | 7.01   |      |      |
| Anderson          | 1.13          |      |      |    |     |     |     | .38  |      | .18  | .03 |      | .93  |      |      |    |    |     |     |     |     | .43 | .42 |      | .15 |     |     | .52  | .05  |      | 4.01 |        |      |      |
| Augusta, Ga.      | .12           |      |      |    |     | .24 |     |      | .18  |      |     | .03  | .37  |      |      |    |    |     |     |     |     |     |     |      |     |     |     | .26  | .03  | .01  |      | 3.58   |      |      |
| Barksdale         | 3.90          | .30  |      |    |     |     |     | .40  | .10  |      |     | .20  |      |      |      |    |    |     |     |     | .74 | T.  | .10 | T.   |     | .24 |     |      | .76  | .34  |      | 7.08   |      |      |
| Batesburg         | 1.03          | T.   |      |    |     |     |     |      | T.   |      |     |      | .43  |      |      |    |    |     |     |     | .06 |     |     | T.   |     |     |     | .42  | .14  | .97  | .79  | .22    | 4.06 |      |
| Beaufort          |               | .44  |      |    |     |     | .21 |      | .20  | .02  |     |      | .47  |      |      |    |    | .11 | T.  |     |     |     |     |      |     |     |     | .10  | .20  | .42  | .15  | 6.83   |      |      |
| Bennettsville     | .17           | .80  |      |    |     |     |     |      | .37  | .25  |     |      | .60  |      |      |    |    |     | .05 |     | .87 | .05 |     |      |     |     | .30 | 1.10 | .41  | .61  |      | 5.58   |      |      |
| Blackville        |               |      | T.   |    |     | T.  |     |      | .45  |      |     |      | 1.57 |      |      |    |    |     |     |     |     |     |     |      |     |     |     | .34  | .32  | 3.50 | .21  | 7.29   |      |      |
| Blairs            | 2.00          | .40  |      |    |     |     |     |      |      |      |     | .90  |      |      |      |    |    |     |     |     |     |     |     |      |     | .60 |     |      | 1.56 | .58  |      | 6.04   |      |      |
| Bowman            | T.            | T.   |      |    |     | .34 |     |      | .04  | .23  | T.  |      | .38  |      |      |    |    |     |     | .11 |     |     |     |      |     |     |     | 1.08 | .66  | 2.18 |      | 5.02   |      |      |
| Calhoun Falls     | .89           |      |      |    |     |     |     |      |      |      |     |      |      |      | 2.05 |    |    |     |     |     |     |     |     |      |     |     |     |      | .32  | .84  |      | 4.10   |      |      |
| Camden (1)        | .63           | .21  |      |    |     |     |     | T.   | T.   | .68  | .27 | .20  | 1.04 |      |      |    |    |     | .07 |     |     |     |     |      |     | .02 | .44 | .71  | 1.37 | .15  |      | 5.82   |      |      |
| Camden (2)        | 1.44          | .05  |      |    |     |     |     |      |      | .18  | .38 |      | 1.30 |      |      |    |    |     |     |     |     |     |     |      |     |     |     | .12  | 2.00 | .70  | .18  | 6.35   |      |      |
| Catawba           | 3.38          | T.   | T.   |    |     |     |     |      |      | 1.40 | .50 |      | .20  |      |      |    |    |     |     |     | T.  |     |     |      |     |     |     |      | 1.08 | 1.80 |      | 8.36   |      |      |
| Chappells         | 1.80          | .08  |      |    |     |     |     |      | .38  |      |     |      | .74  |      |      |    |    |     |     |     |     |     | .08 |      | .30 |     |     | .10  |      | 1.50 |      | 4.98   |      |      |
| Charleston        | .01           | .33  |      |    | .04 |     |     | .06  | .01  | .25  |     | .27  |      |      |      |    |    | .02 |     |     |     |     |     |      | .04 | .04 |     | .09  | .17  | 3.25 |      | 4.58   |      |      |
| Charlotte, N. C.  | 1.14          | .16  |      |    | .03 |     |     | T.   | .10  | .50  | .04 | .01  | .35  |      |      |    |    | T.  | T.  |     | .08 | .74 | T.  |      |     |     |     | .48  | .52  | .04  |      | 4.19   |      |      |
| Cheraw (1)        | 1.40          | .28  | 1.18 | T. |     | T.  |     |      |      | T.   | .43 | .91  | T.   | 1.30 |      |    |    |     | .11 |     | .70 |     |     |      |     | .02 |     | .16  | 1.15 | .59  | .32  | 8.55   |      |      |
| Cheraw (2)        | 1.52          | .10  | 1.08 |    |     | .04 |     |      |      | T.   | .02 | .40  | .84  | 1.32 |      |    |    |     | .09 |     | .74 |     | .04 |      |     |     |     | .17  | 1.08 | .61  | .34  | 8.43   |      |      |
| Clark's Hill      | .15           | T.   |      |    |     |     |     |      | .08  |      |     |      | 1.32 |      |      |    |    | .21 | .10 |     |     |     |     |      |     |     |     |      | 3.09 |      |      | 5.27   |      |      |
| Clemson College   | .75           |      |      |    |     |     |     | .62  | .12  |      |     |      | .26  |      |      |    |    |     |     |     |     |     | .09 |      |     |     |     |      | .36  | .02  |      | 2.22   |      |      |
| Columbia          | .71           | .13  |      |    |     |     |     | .02  | .08  |      |     |      | .97  |      |      |    |    |     |     |     |     | .01 |     |      | T.  | T.  |     | .08  | .43  | .20  |      | 2.63   |      |      |
| Conway            | 1.14          | .70  | .45  |    |     | .15 |     |      | .05  | 1.50 | .75 |      | .75  | .65  |      |    |    |     | T.  |     |     |     |     |      |     |     |     | .05  | 1.76 | 1.42 | .90  | 10.21  |      |      |
| Darlington        |               | .72  | .03  |    |     |     |     |      | T.   |      | .13 | 3.22 | .37  | .09  | .29  |    |    |     |     |     | .56 |     |     |      |     |     | T.  | 1.71 | .23  | 3.93 | 1.10 | 12.38  |      |      |
| Dillon            | .52           | .38  |      | T. | T.  |     |     |      | .31  | .47  | .03 | .05  | .15  |      |      |    |    |     |     | .07 |     |     |     |      |     |     |     | 2.00 | .92  | .19  | 1.66 | 6.55   |      |      |
| Due West          | 1.03          |      |      |    |     |     |     | .20  | 1.22 |      |     |      | .60  |      |      |    |    |     |     |     |     |     | .12 | .70  |     |     |     |      | 1.20 |      |      | 5.07   |      |      |
| Edisto            | 1.02          |      |      |    |     | .76 |     |      | .54  | .87  |     |      | .90  |      |      |    |    |     |     |     |     |     |     |      |     |     |     | .76  |      | 2.15 | 3.90 | 10.90  |      |      |
| Effingham         | 1.00          | .25  |      |    |     |     |     |      | .40  | 2.00 | .50 |      | .50  |      |      |    |    |     |     | .50 |     |     |     |      |     |     |     | .50  | .75  | .02  | .50  | 8.90   |      |      |
| Florence          | .66           |      | .05  |    |     |     |     |      | .04  | 1.12 | .99 |      |      |      |      |    |    |     |     | .62 |     |     |     |      |     |     |     |      | .76  | .48  | 1.82 | .67    | 7.21 |      |
| Georgetown        | .63           | .20  |      |    |     | .02 |     |      | .70  |      | .72 | .21  |      |      |      |    |    | .20 |     |     |     |     |     |      |     |     |     | T.   | .20  | 2.00 |      | 4.88   |      |      |
| Greenville        | 2.36          |      | .14  |    |     |     |     | .40  | .08  | 1.13 |     |      | .61  |      |      |    |    |     |     |     |     | .47 | .09 | .02  | .70 |     |     |      | .28  | .18  | .14  | 6.90   |      |      |
| Greenwood         | 1.70          |      |      |    |     |     |     | .03  | .80  |      |     |      | 1.05 |      |      |    |    |     |     |     |     |     |     |      |     | .12 | .10 | .20  | .07  |      | .05  | 2.20   | 6.32 |      |
| Heath Spring      | 1.51          | .07  |      |    | .06 |     |     |      | 1.10 | .77  |     | .42  |      |      |      |    |    |     | .08 |     |     |     |     |      |     |     |     | .60  | .30  | .05  |      | 5.27   |      |      |
| Kingstree (1)     | .32           | .60  | .22  |    |     |     |     |      | T.   | .40  | .32 |      | .85  |      |      |    |    |     |     |     | T.  | T.  |     |      |     |     |     | .10  | 1.06 | 1.40 | .84  | 6.11   |      |      |
| Kingstree (2)     | .60           | .50  | .20  |    |     |     |     |      | .62  | .43  | .30 |      | 1.00 |      |      |    |    |     |     |     |     |     |     |      |     |     |     | .12  | .83  | 1.75 | .14  | 6.79   |      |      |
| Liberty           | .40           |      |      |    |     |     |     | .55  | .35  |      | .01 | .02  | T.   |      |      |    |    |     |     | .41 |     | T.  | .10 | 1.03 |     | T.  | T.  |      | .80  | .30  | .20  | 4.20   |      |      |
| Little Mountain   | .43           |      |      |    |     |     |     | .05  | .03  | .02  |     |      | .31  |      |      |    |    |     |     | .02 |     | .05 |     |      |     |     |     |      | .04  | 1.65 | .09  |        | 2.68 |      |
| Newberry          | .42           | .01  |      |    |     |     |     | .07  | .11  |      | T.  |      | .45  |      |      |    |    |     |     |     |     |     | .13 | T.   | .26 |     |     |      | .80  | .47  | .16  |        | 2.90 |      |
| Pelzer            | 1.70          | .08  |      |    |     |     |     | .22  |      | .91  |     |      | .50  |      |      |    |    |     |     |     |     |     |     |      |     |     |     |      | .12  | .10  |      | 4.40   |      |      |
| Pinopolis         |               | .35  |      |    | .27 |     |     |      |      | .97  |     | .35  |      |      |      |    |    |     |     |     |     |     |     |      |     |     |     |      |      |      | 1.00 | 1.50   | 4.44 |      |
| St. George        | .80           |      | .08  |    |     | .15 |     |      | .12  | .07  | .10 |      | .40  |      |      |    |    |     |     |     |     |     |     |      |     |     |     |      | .63  |      | 1.60 | .96    | 1.91 |      |
| St. Matthews      | 1.50          | .30  |      |    |     |     |     |      |      |      |     |      | 1.15 |      |      |    |    |     |     |     |     |     |     |      |     |     |     |      | .60  | 1.20 | 1.60 | 1.08   | 8.60 |      |
| St. Stephens      | 1.11          | .10  | .12  |    |     | .60 |     |      |      | 1.21 | .78 | .01  | .32  |      |      |    |    |     |     |     | .08 |     |     |      |     |     |     |      | .03  |      | 1.75 | .85    | 7.02 |      |
| Saluda            | .67           | .08  |      |    |     |     |     |      | .11  |      | .04 |      | .65  | .01  |      |    |    |     |     |     |     |     |     |      |     |     |     |      |      |      |      | 3.32   |      |      |
| Santuc            | .80           | .47  |      |    |     |     |     | .08  | .01  | .03  | .08 |      | .05  |      |      |    |    |     | .02 |     | .13 | .09 | .25 | .01  | .20 | .01 | .65 | .55  | .16  |      | 4.30 |        |      |      |
| Savannah, Ga.     | .30           | T.   |      |    | .01 |     |     |      |      | T.   |     |      | 1.20 |      |      |    |    |     |     | .12 |     |     | .04 |      |     |     |     | .15  | .77  | .51  | 5.07 | 8.44   |      |      |
| Smith Mills       |               | 1.78 |      |    |     |     |     |      | .05  |      | .68 |      |      | .40  |      |    |    |     |     | .12 |     | .04 |     |      |     |     |     |      | .10  | .15  | .78  | .40    | 4.50 |      |
| Society Hill      | .10           | .32  | .01  |    |     |     |     | .03  | 1.19 | 1.36 | .64 |      | T.   |      |      |    |    |     |     | .55 |     | T.  |     |      |     |     |     | .40  | 1.42 | .52  | .51  | 7.25   |      |      |
| Spartanburg       | 3.60          | .09  | .02  |    |     |     |     | .28  |      | T.   |     | .02  | T.   | .40  |      |    |    |     |     | .07 |     |     |     |      | .30 | .23 |     |      |      | .20  | .35  | .72    | 8.28 |      |
| Stateburg         |               |      |      |    |     |     |     |      |      |      |     |      |      |      |      |    |    |     |     |     |     |     |     |      |     |     |     |      |      |      |      |        |      |      |
| Summerville       | .06           | .40  |      |    |     | .13 |     |      |      | .14  | .06 |      | T.   | .22  |      |    |    |     |     | .04 |     |     |     |      |     |     |     |      | .04  | .15  | 2.46 | 3.70   |      |      |
| Sumter            | .12           |      |      |    |     |     |     | .28  |      | T.   |     | .60  |      |      |      |    |    |     |     |     |     |     |     |      |     |     |     |      | .12  | .14  | 1.31 |        | 2.66 |      |
| Trenton           | T.            | 1.20 |      |    | .13 |     |     |      | .25  | 1.80 | T.  |      | .47  |      |      |    |    |     | .19 |     |     |     |     |      |     |     |     |      | .17  |      | .75  | 1.37   | 5.33 |      |
| Walhalla          | 1.30          |      |      |    |     |     |     | 1.35 | T.   |      |     |      | .33  |      |      |    |    |     |     | .54 |     |     |     |      |     |     |     |      | .13  | .39  | .11  | 4.55   |      |      |
| Walterboro        | .18           | .02  |      |    | .33 |     |     |      | 1.47 | .10  | .02 |      | .04  | .13  |      |    |    |     | .12 |     |     |     |     |      |     |     |     |      | .25  | .23  | 2.61 | 5.81   |      |      |
| Wilmington, N. C. | .41           | 1.05 |      |    | .29 | .04 |     |      |      | 1.20 |     | T.   | .25  |      |      |    |    |     | .48 | .45 |     |     |     |      |     |     |     |      | .26  | T.   | .53  | 1.19   | 9.83 |      |
| Winnsboro         | .10           | T.   |      |    |     |     |     |      |      | 1.05 | .44 |      | T.   | .27  |      |    |    |     |     | .20 |     | .18 |     |      |     | .10 | .15 |      | T.   | 2.90 | .65  | T.     | 5.73 |      |
| Winthrop College  | 1.14          | .39  | .04  |    | .05 |     |     |      |      | 1.5  | .20 | .02  |      | .58  |      |    |    |     |     | .62 |     |     |     |      |     |     |     |      | .21  | .61  | .09  | 2.00   | 1.07 | 6.12 |
| Yemassee          | .20           |      |      |    | .26 |     |     |      |      | 1.5  | .20 | .02  |      | .58  |      |    |    |     |     |     |     |     |     |      |     |     |     |      | .21  | .61  | .09  | 2.00   | 1.07 | 6.12 |
| Yorkville         | .85           | .28  |      |    | .03 |     |     | .06  | T.   | .04  | .97 | .07  | .05  |      |      |    |    |     |     | .83 | .19 |     |     |      |     |     |     | .18  | .04  | .21  | 1.61 | .02    |      | 5.46 |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JULY, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

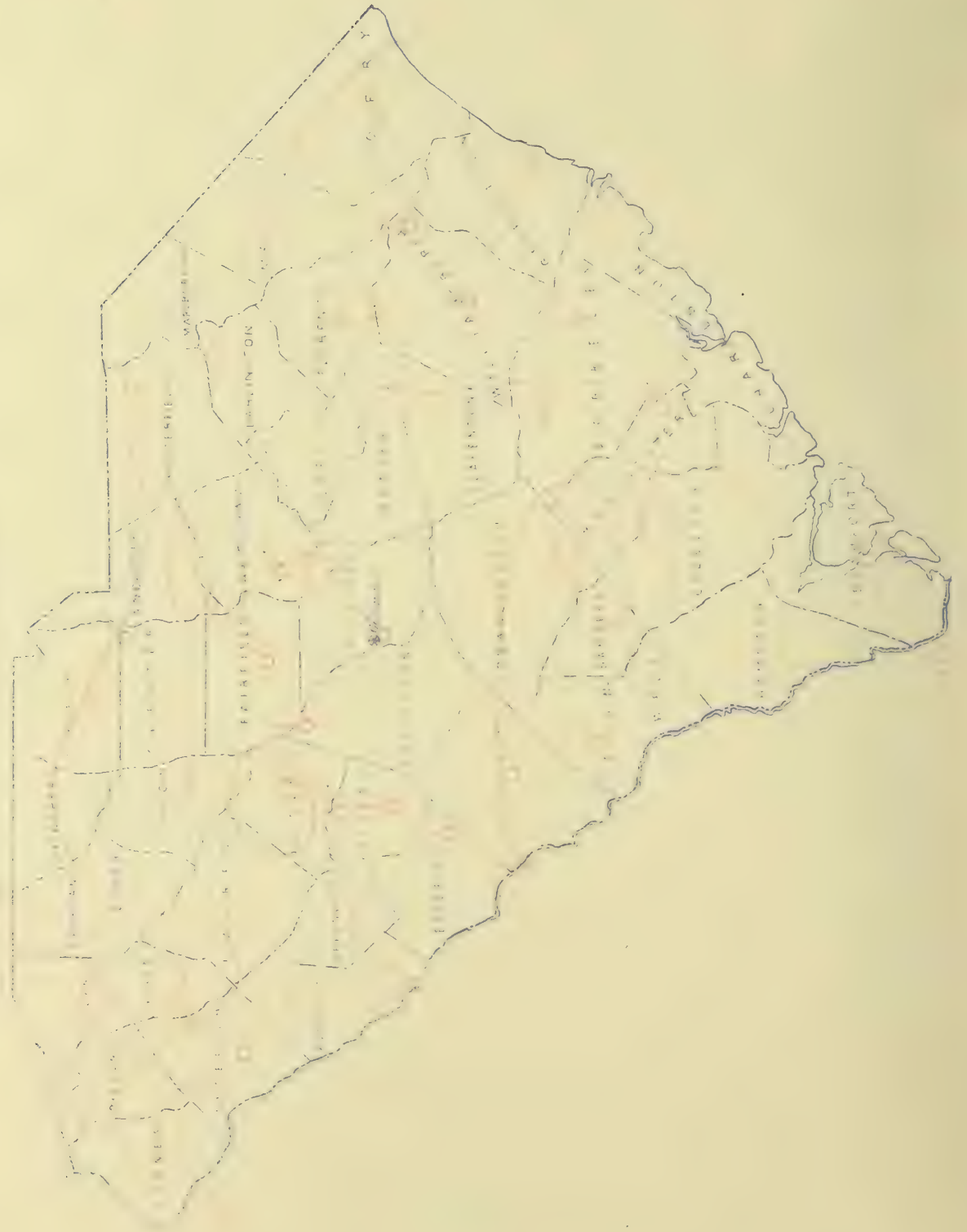
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

AUGUST 28, 1907

MONTHLY MEAN TEMPERATURE AND PREVALENT WINDS FOR JULY 1907





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. X.

COLUMBIA, S. C., JULY, 1907.

No. 7.

## GENERAL SUMMARY.

This month as a whole ranks among the warmest of all preceding Julys on record for this State. In all other respects the weather conditions were nearly normal.

The mean temperature was as high as that of 1901, which was the warmest July during the last fourteen years. The mean of the daily maximum temperatures exceeds the similar record of preceding years for the same month, by slightly over half a degree. There were two periods of unusually high temperatures, namely, from the 7th to the 10th, inclusive, and from the 19th to the 25th, inclusive. The 7th, 8th, 9th, 23d, and 24th were the hottest days, on which the maximum temperatures ranged from 90° to over 100° in all parts of the State. Thirty-one out of the forty-six stations had maximum temperatures of 100°, or higher, on one or more days.

The average precipitation was slightly below the normal. The southern half of the State had the heaviest rainfall, with the exception of a small area on the immediate coast, in the vicinity of Charleston, where it was only 32 per cent. of the normal amount. The precipitation was well distributed thruout the month. The longest periods with practically no rain were from the 5th to the 8th, inclusive, and from the 21st to the 23d, inclusive.

Occasional high winds and light hail accompanied thunderstorms but without doing any material damage.

There were fewer clear and cloudy days and more partly cloudy days than usual, tho the percentage of sunshine was approximately normal.

## TEMPERATURE.

The mean temperature for July, 1907, was 81.4°, which is 1.6° above normal. The highest local mean was 84.0° at St. George, the lowest was 76.4° at Greenville. The monthly extremes were 106° at Blackville on the 8th and 56° at Walhalla on the 15th, making the State range 50°. The greatest local monthly range was 49° at Walhalla, the least was 27° at Kingstree. The mean of the daily maximum temperatures was 91.8°, and of the daily minimum temperatures was 71.0°, making the average daily range 20.8°.

## PRECIPITATION.

The average precipitation was 5.06 inches, which is 0.55 of an inch below the normal. The greatest local monthly amount was 9.01 inches at Edisto, the least was 2.27 inches at Greenville. The greatest 24-hour rainfall was 3.54 inches at Conway on the 30th-31st. The average number of days with 0.01 of an inch, or more, precipitation was 11, ranging from 5 at Walhalla to 17 at Saluda.

EXCESSIVE PRECIPITATION.—Excessive precipitation at

the rate of 2.59 inches in 24 hours or 1.00 inch an hour occurred as follows: at Conway on the 30th-31st, 3.54 inches in 14 hours; at Effingham on the 15th, 2.00 inches in 1 hour and 30 minutes; at Georgetown on the 4th, 3.40 inches in 24 hours; at Santuc on the 25th, 2.01 inches in 1 hour and 15 minutes; at Trial on the 10th, 2.51 inches in 2 hours and 35 minutes; at Winnsboro on the 2d, 3.50 inches in 24 hours; at Yemassee on the 28th, 1.59 inches in 1 hour, and on the 30th, 1.29 inches in 30 minutes.

## WIND.

The prevailing direction of the wind was from the southwest at 20 stations, from the south at 11 stations, from the west at 10 stations, from the southeast at 4 stations, and from the northeast and east at 1 station each.

HIGH WINDS.—High winds occurred at Aiken on the 1st; at Beaufort on the 12th, 24th; at Camden on the 2d, 11th, 12th, 24th, 25th; at Charleston on the 24th; at Clarks Hill, Columbia, Summerville on the 11th; at Liberty on the 9th, 11th; at Trial on the 10th, 24th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 13, of partly cloudy days was 13, and of cloudy days was 5.

## MISCELLANEOUS PHENOMENA.

LUNAR HALOS.—Winthrop College on the 19th.

HAIL.—Hail occurred at the following stations, namely: at Batesburg on the 26th; at Liberty on the 9th, 11th; at Little Mountain on the 10th, 28th.

DENSE FOG.—Dense fog occurred on six dates, as follows: at Camden and Winthrop College on the 16th; at Heath Springs on the 15th; at Liberty on the 3d; at Saluda on the 4th; at Stateburg on the 5th; at Trial on the 4th, 31st.

THUNDERSTORMS.—Thunderstorms occurred on twenty-seven days. There were three periods of maximum frequency, namely, 2d-3d, 9th-19th, 24th-30th, when from five to thirteen of the thirty-four cooperative stations reported the occurrence of thunderstorms. None were reported on the 5th, 7th, 21st, 22d, and they were comparatively infrequent on the 1st, 4th, 6th, 8th, 20th, 23d, and 31st.

## REMARKS BY OBSERVERS.

BEAUFORT.—Altho the precipitation was 0.60 of an inch in excess of the normal at this station, nearby localities had apparently less rainfall.—S. M. Benton. BATESBURG.—The temperature was unusually high at times. Beneficial showers fell during the first and the last decades. The hail on the 26th did no damage.—E. J. Hite. BOWMAN.—Altho there were fewer thunderstorms than usually occur in July, they were more severe than ordinarily, the lightning having been very vivid. A large number of trees were struck by lightning.—B. O. Evans. LIBERTY.—The sunshine was ample and the rainfall was generally well distributed, tho a few localities suffered from excessive precipitation.—Jno. T. Boggs. SANTUC.—The month was noteworthy for the unusually large number of thunderstorms and the severity of the storms, especially for the vivid lightning and loud thunder that accompanied some of the thunderstorms.—E. W. Jeter. SOCIETY HILL.—The heat was very oppressive during the month, the maximum temperature exceeding 90° on seventeen days.—J. J. Lucas. SUMMERVILLE.—The minimum temperature on the 24th, 76°, was the warmest night since August 6th, 1903.—Miss E. H. Gadsden.



## RIVER GAGE READINGS, JULY, 1907.

| Stations.            | Mean. | Highest. | Date. | Lowest. | Date. |
|----------------------|-------|----------|-------|---------|-------|
| Blairs .....         | 1.9   | 4.8      | 14    | 0.2     | 25    |
| Calhoun Falls .....  | 2.9   | 4.5      | 31    | 2.4     | 28    |
| Camden .....         | 7.8   | 14.0     | 16    | 5.0     | *11   |
| Catawba .....        | 2.8   | 5.5      | 1     | 1.7     | 23    |
| Chappells .....      | 3.9   | 7.4      | 3     | 2.5     | *25   |
| Cheraw .....         | 4.3   | 10.2     | 1     | 1.9     | 26    |
| Columbia .....       | 1.7   | 4.0      | 27    | 0.9     | 10    |
| Edisto .....         | 3.9   | 5.5      | 2     | 2.6     | 18    |
| Effingham .....      | 6.6   | 10.0     | 5     | 4.3     | *29   |
| Kingstree .....      | 6.2   | 9.3      | 26    | 4.0     | 31    |
| Mt. Holly, N.C. .... | 2.1   | 3.2      | 15    | 1.8     | *23   |
| Pelzer .....         | 3.0   | 3.8      | 4     | 2.6     | *22   |
| Rimini .....         | 9.2   | 12.9     | *2    | 5.8     | 25    |
| St. Stephens .....   | 7.2   | 8.8      | 9     | 4.1     | 27    |
| Smith Mills .....    | 9.5   | 12.6     | *7    | 5.0     | 30    |

\* On other dates also.

## ERRATA.

The following corrections should be made in the May, 1907, number of the Monthly Report: On page 37, the Aiken monthly mean temperature, 71.4°, should be 71.5°; the Saluda monthly mean temperature, 70.8°, should be 70.2°. On pages 37 and 40, the Dillon total precipitation, 3.61, should be 3.21; the Saluda total precipitation, 3.54, should be 3.24. On page 38, the maximum temperature at Aiken on the 3d, 72°, should be 77°, and the monthly mean maximum, 83.3, should be 83.5; the Saluda monthly mean minimum, 59.4°, should be 57.9°.

TEMPERATURE AND PRECIPITATION DATA FOR  
ANDERSON, S. C.

## Monthly and Annual Precipitation.

| Year. | Jan. | Feb.  | Mar.  | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|-------|-------|------|------|-------|-------|-------|-------|------|------|------|-------|
| 1887. |      | 4.61  |       |      | 2.73 |       |       |       |       |      |      |      |       |
| 1888. |      |       |       |      |      |       |       | 6.53  | 10.50 | 4.06 |      |      | 3.80  |
| 1889. | 6.23 | 6.56  |       | 3.40 | 2.57 | 5.53  | 6.27  | 6.11  |       |      |      |      | 0.67  |
| 1890. |      | 4.64  | 3.41  | 9.08 | 3.29 | 5.32  | 3.31  | 7.18  | 7.19  | 0.11 | 3.95 |      |       |
| 1891. |      | 9.53  | 11.60 | 2.63 | 3.65 |       |       | 6.66  | 0.59  | 3.55 | 2.82 |      |       |
| 1892. | 9.82 | 6.04  |       |      |      |       |       | 3.18  |       |      |      |      |       |
| 1893. |      | 1.63  | 1.95  |      | 5.36 | 6.52  | 2.06  |       | 6.67  | 5.36 | 2.41 | 1.31 |       |
| 1894. | 5.94 | 5.31  | 1.60  | 2.60 | 3.76 | 3.27  | 3.86  | 3.83  | 3.25  | 4.73 | 1.60 | 3.40 | 43.15 |
| 1895. | 8.07 | 2.42  | 6.72  | 5.27 | 4.77 | 0.80  | 2.42  | 6.96  | 0.99  | 0.66 | 3.75 | 3.84 | 46.67 |
| 1896. | 4.36 | 4.00  | 2.02  | 1.02 | 1.67 | 4.73  | 7.44  | 1.61  | 2.91  | 1.85 | 7.46 | 2.48 | 41.55 |
| 1897. | 3.85 | 6.81  | 5.39  | 4.20 | 1.73 | 3.12  | 6.06  | 6.32  | 1.98  | 4.17 | 4.28 | 2.76 | 50.67 |
| 1898. | 3.83 | 0.95  | 4.16  | 4.03 | 1.03 | 3.98  | 0.01  | 9.34  | 5.50  | 4.83 | 3.27 | 3.16 | 53.09 |
| 1899. | 4.60 | 9.81  | 6.82  | 2.33 | 2.05 | 4.80  | 3.30  | 2.60  | 0.55  | 3.80 | 1.67 | 3.52 | 45.85 |
| 1900. | 2.70 | 10.61 | 7.47  | 7.19 | 2.87 | 15.43 | 3.35  | 1.90  | 2.87  | 5.08 | 4.38 | 4.24 | 68.09 |
| 1901. |      |       |       |      |      | 8.25  | 4.20  | 17.35 | 8.30  | 0.98 | 0.67 | 8.80 |       |
| 1902. | 3.40 | 9.99  | 4.93  | 1.50 | 2.74 | 3.64  | 4.29  | 3.19  | 4.95  | 2.24 | 3.33 | 4.32 | 48.52 |
| 1903. | 4.20 | 8.40  | 5.65  | 3.10 | 2.56 | 7.16  | 2.72  | 5.34  | 0.90  | 1.38 | 1.57 | 1.89 | 44.87 |
| 1904. | 2.01 | 3.12  | 3.76  | 1.95 | 1.57 | 3.93  | 2.55  | 12.13 | 0.63  | 0.24 | 2.12 | 4.38 | 38.39 |
| 1905. |      | 3.70  | 0.89  | 3.91 | 7.76 | 3.26  | 5.82  | 5.23  | 0.63  | 2.28 | 2.06 | 7.93 |       |
| 1906. | 8.06 | 1.16  | 7.81  | 1.59 | 4.93 | 4.53  | 8.73  | 4.52  | 5.76  | 2.41 | 1.33 | 4.39 | 55.24 |
| M'ns  | 5.16 | 5.74  | 4.92  | 3.11 | 3.63 | 4.62  | 4.84  | 5.90  | 3.97  | 3.05 | 2.82 | 3.76 | 51.52 |

## Monthly and Annual Mean Temperature.

| Year. | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1887. | 38   | 51   |      |       | 72   |      |      |      |       |      |      |      |       |
| 1888. |      |      |      |       |      |      |      | 77   | 71    | 60   |      | 41   |       |
| 1889. | 42   | 36   |      | 62    | 72   | 72   | 78   | 74   |       |      |      | 53   |       |
| 1890. |      | 52   | 45   |       | 66   | 78   | 77   | 76   | 68    |      |      |      |       |
| 1891. |      |      | 46   |       | 65   |      |      | 77   |       | 58   | 50   | 47   |       |
| 1892. | 42   | 46   |      |       |      |      |      | 76   |       |      |      |      |       |
| 1893. |      |      | 53   | 65    | 68   | 74   | 81   | 77   | 72    | 61   | 50   | 46   |       |
| 1894. | 46   | 46   | 56   | 59    | 60   | 75   | 77   | 77   | 74    | 61   | 49   | 46   | 61    |
| 1895. | 42   | 34   | 51   | 59    | 71   | 77   | 78   | 77   | 76    | 60   | 53   | 43   | 59    |
| 1896. | 39   | 45   | 50   | 66    | 76   | 77   | 79   | 80   |       | 60   |      | 38   |       |
| 1897. | 40   | 44   | 53   | 59    | 67   | 78   |      | 77   | 72    | 63   | 52   | 46   |       |
| 1898. | 45   | 40   | 56   | 53    | 69   | 78   | 78   | 76   | 72    | 59   | 47   | 43   | 60    |
| 1899. | 41   | 39   | 51   | 58    | 71   | 77   | 78   | 80   | 68    |      | 52   | 40   |       |
| 1900. | 39   | 39   | 48   | 60    | 67   | 73   | 78   | 79   | 73    | 63   | 50   | 39   | 59    |
| 1901. |      |      |      |       |      |      | 82   | 78   | 72    | 64   | 49   | 43   |       |
| 1902. | 42   | 39   | 52   | 61    | 75   | 79   | 82   | 79   | 72    |      | 53   | 45   |       |
| 1903. | 42   | 47   | 58   | 60    | 71   | 73   | 81   | 80   | 74    | 64   | 52   | 41   | 62    |
| 1904. | 39   | 43   | 55   | 60    | 70   | 77   | 79   | 78   | 76    | 65   | 52   | 45   |       |
| 1905. |      |      | 60   | 63    | 72   | 79   | 80   | 77   | 77    | 63   | 54   | 43   |       |
| 1906. | 45   | 45   | 49   | 64    | 69   | 76   | 77   | 80   | 76    | 60   | 53   | 47   |       |
| M'ns  | 41.6 | 43.1 | 52.2 | 60.6  | 70.0 | 76.2 | 78.3 | 77.6 | 72.8  | 61.6 | 50.9 | 43.9 | 60.7  |

## Extremes of Temperature and Precipitation.

| Month.          | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|                 | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January .....   | 46                    | 1894  | 38                   | 1887  | 9.82              | 1892  | 2.01           | 1904  |
| February .....  | 51                    | 1887  | 34                   | 1795  | 10.61             | 1900  | 0.95           | 1898  |
| March .....     | 60                    | 1905  | 45                   | 1890  | 11.60             | 1891  | 0.89           | 1905  |
| April .....     | 66                    | 1896  | 53                   | 1898  | 7.19              | 1900  | 1.02           | 1896  |
| May .....       | 76                    | 1896  | 65                   | 1891  | 9.08              | 1890  | 1.03           | 1898  |
| June .....      | 79                    | *1905 | 72                   | 1889  | 15.43             | 1900  | 0.80           | 1895  |
| July .....      | 82                    | *1902 | 77                   | *1906 | 9.01              | 1898  | 2.06           | 1893  |
| August .....    | 80                    | *1906 | 74                   | 1889  | 17.35             | 1901  | 1.61           | 1896  |
| September ..... | 77                    | 1905  | 68                   | *1899 | 10.50             | 1888  | 0.55           | 1899  |
| October .....   | 65                    | 1904  | 58                   | 1811  | 7.19              | 1890  | 0.24           | 1904  |
| November .....  | 54                    | 1905  | 47                   | 1898  | 7.46              | 1896  | 0.11           | 1890  |
| December .....  | 47                    | *1906 | 38                   | 1896  | 8.80              | 1901  | 0.67           | 1889  |

\* And other years.

## BAROMETER AND WIND TABLE FOR JULY, 1907.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |     |    |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|-----|----|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |     |    |
| Augusta, Ga. ....      | 29.98      | 30.18    | 17    | 29.85   | 31    | 3.855           | 5.2             | 50                | W.  | 25 |
| Charleston .....       | 29.99      | 30.21    | 18    | 29.86   | 30    | 7.012           | 9.4             | 38                | N.  | 24 |
| Charlotte, N. C. ....  | 29.98      | 30.18    | 17    | 29.81   | 26    | 3.797           | 5.1             | 31                | NW. | 24 |
| Columbia .....         | 29.97      | 30.19    | 17    | 29.84   | 31    | 4.149           | 5.6             | 42                | SW. | 11 |
| Savannah, Ga. ....     | 30.01      | 30.21    | 18    | 29.87   | 26    | 5.186           | 7.0             | 37                | S.  | 24 |
| Wilmington, N. C. .... | 29.97      | 30.20    | 17    | 29.85   | 23    | 5.402           | 7.3             | 50                | NW. | 10 |
| Averages .....         | 29.98      | 30.21    | 18    | 29.81   | 26    | 4.900           | 6.6             | 50                | W.* | 25 |

\* And NW. on the 10th.

## COMPARATIVE JULY DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |                  |                |                   | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|------------------|----------------|-------------------|--------------------------|----------------------------------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                  | Least Monthly. |                   |                          |                                  |
|           |              |                  |                  |          |          |                | Amount.           | Place.           | Amount.        | Place.            |                          |                                  |
| 1894..... | 77.7         | 86.6             | 69.3             | 100      | 55       | 8.24           | 17.31             | Hardeville.      | 3.59           | Yorkville.        | 16                       | sw.                              |
| 1895..... | 79.5         | 89.4             | 70.6             | 102      | 54       | 4.17           | 8.20              | Georgetown.      | 0.73           | Cheraw.           | 8                        | sw.                              |
| 1896..... | 80.7         | 89.5             | 72.3             | 105      | 51       | 8.17           | 15.72             | Greenwood.       | 3.42           | St. Stephens.     | 13                       | sw.                              |
| 1897..... | 80.2         | 90.1             | 70.5             | 107      | 54       | 5.01           | 9.81              | St. Stephens.    | 2.00           | Spartanburg.      | 11                       | sw.                              |
| 1898..... | 80.0         | 89.2             | 70.8             | 102      | 54       | 7.81           | 12.99             | Charleston.      | 4.72           | Effingham.        | 14                       | sw.                              |
| 1899..... | 80.0         | 90.4             | 69.7             | 105      | 47       | 4.03           | 10.16             | Temperance.      | 1.58           | Trenton.          | 9                        | sw.                              |
| 1900..... | 81.2         | 91.2             | 71.2             | 104      | 55       | 4.08           | 11.29             | St. Matthews.    | 1.05           | Greenwood.        | 9                        | sw.                              |
| 1901..... | 81.4         | 90.6             | 72.1             | 102      | 62       | 4.52           | 13.25             | Georgetown.      | 0.65           | Windsboro.        | 10                       | sw.                              |
| 1902..... | 80.8         | 91.2             | 70.4             | 107      | 58       | 3.79           | 9.62              | Yemassee.        | 0.71           | Winnboro.         | 9                        | sw.                              |
| 1903..... | 80.4         | 90.7             | 70.0             | 103      | 45       | 3.59           | 8.54              | Gillisonville.   | 0.95           | Winthrop College. | 8                        | sw.                              |
| 1904..... | 79.4         | 90.5             | 68.4             | 105      | 50       | 5.06           | 14.38             | Cheraw.          | 1.44           | Clemson College.  | 12                       | sw.                              |
| 1905..... | 80.4         | 90.4             | 70.3             | 101      | 66       | 6.16           | 14.29             | Calhoun Falls.   | 3.15           | St. George.       | 12                       | sw.                              |
| 1906..... | 78.4         | 87.4             | 69.5             | 100      | 56       | 8.40           | 17.77             | Clemson College. | 4.01           | Little Mountain.  | 16                       | sw.                              |
| 1907..... | 81.4         | 91.8             | 71.0             | 106      | 56       | 5.06           | 9.01              | Edisto.          | 2.27           | Greenville.       | 11                       | sw.                              |



CLIMATOLOGICAL DATA FOR THE MONTH OF JULY, 1907.

| STATIONS                              | COUNTIES     | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahrenheit |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | Sky                      |                   |                   |                           | Observers |                       |                              |
|---------------------------------------|--------------|------------------|--------------------------|------------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|--------------------------|-------------------|-------------------|---------------------------|-----------|-----------------------|------------------------------|
|                                       |              |                  |                          | Mean                               | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total, snowfall included | Number rainy days | Number clear days | Number partly cloudy days |           | Number of cloudy days | Prevailing direction of wind |
| Arkett                                | Aiken        | 505              | 23                       | 81.8                               | +0.7                      | 103     | 21   | 63     | 1    | 33                       | 6.87  | +2.02                     | 1.80                 | 0                        | 12                | 10                | 19                        | 2         | se.                   | C. F. McGahan, M. D.         |
| Allendale                             | Barnwell     | 186              | 19                       | 83.3                               | +2.5                      | 100     | *6   | 68     | 5    | 28                       | 5.33  | -0.58                     | 1.07                 | 0                        | 10                | 15                | 0                         | 16        | w.                    | A. R. Hiers.                 |
| Anderson                              | Anderson     | 704              | 6                        | 81.2                               | +3.1                      | 103     | 7    | 61     | 5    | 32                       | 4.41  | -0.13                     | 1.80                 | 0                        | 10                | 15                | 0                         | 16        | w.                    | H. H. Russell.               |
| Augusta, Ga.                          | Richmond     | 114              | 36                       | 82.2                               | +1.7                      | 102     | 21   | 66     | 5    | 29                       | 3.17  | -1.82                     | 1.17                 | 0                        | 13                | 14                | 16                        | 1         | s.                    | Weather Bureau.              |
| Barksdale                             | Laurens      | 680              | 0                        |                                    |                           |         |      |        |      |                          |       |                           |                      |                          |                   |                   |                           |           |                       | J. T. Garrett                |
| Batesburg                             | Lexington    | 656              | 19                       | 81.4                               | +1.5                      | 102     | 23   | 65     | 5    | 30                       | 3.44  | -3.00                     | 0.86                 | 0                        | 10                | 18                | 5                         | 4         | s.                    | E. J. Hite.                  |
| Beaufort                              | Beaufort     | 20               | 21                       | 82.1                               | +0.1                      | 101     | 0    | 67     | 6    | 23                       | 5.06  | +0.23                     | 2.22                 | 0                        | 13                | 12                | 15                        | 4         | s.                    | S. M. Benton.                |
| Bennettsville                         | Marlboro     | 151              | 6                        | 81.4                               |                           | 102     | *8   | 62     | 5    | 31                       | 3.43  |                           | 0.80                 | 0                        | 11                | 19                | 12                        | 0         | s.                    | C. S. McCall.                |
| Blackville                            | Barnwell     | 206              | 19                       | 83.8                               | +2.4                      | 106     | 8    | 66     | 4    | 30                       | 4.80  | -0.93                     | 1.12                 | 0                        | 14                | 17                | 8                         | 6         | sw.                   | Miss M. E. Lange.            |
| Blairs                                | Fairfield    | 293              | 2                        |                                    |                           |         |      |        |      |                          | 5.18  |                           | 1.80                 | 0                        | 6                 | 15                | 8                         | 8         | s.                    | T. S. McMeekin.              |
| Bowman                                | Orangeburg   | 100              | 6                        | 83.0                               |                           | 102     | *9   | 65     | 5    | 28                       | 1.78  |                           | 1.06                 | 0                        | 12                | 18                | 13                        | 0         | w.                    | B. O. Evans.                 |
| Calhoun Falls                         | Abbeville    | 508              | 14                       |                                    |                           |         |      |        |      |                          | 3.73  | -0.82                     | 0.94                 | 0                        | 9                 | 20                | 0                         | 11        | sw.                   | P. J. Pfeiffer.              |
| Camden (1)                            | Kershaw      | 2                | 2                        | 80.3                               |                           | 100     | *23  | 61     | 5    | 34                       | 4.51  |                           | 1.55                 | 0                        | 13                | 16                | 12                        | 3         | sw.                   | J. B. Mickle.                |
| Camden (2)                            | Kershaw      | 222              | 11                       |                                    |                           |         |      |        |      |                          | 3.94  | -1.10                     | 1.32                 | 0                        | 9                 | 13                | 13                        | 5         | e.                    | W. C. Brown.                 |
| Catawba                               | York         | 2                | 2                        |                                    |                           |         |      |        |      |                          | 4.42  |                           | 0.84                 | 0                        | 10                | 16                | 8                         | 7         | sw.                   | James Y. Brice.              |
| Chappells                             | Newberry     | 402              | 2                        |                                    |                           |         |      |        |      |                          | 3.42  |                           | 1.46                 | 0                        | 8                 | 14                | 9                         | 8         | sw.                   | W. R. Zimmerman.             |
| Charleston                            | Charleston   | 48               | 38                       | 82.3                               | +1.0                      | 100     | 8    | 70     | 6    | 21                       | 2.33  | -4.93                     | 0.90                 | 0                        | 13                | 17                | 6                         | 8         | sw.                   | Weather Bureau.              |
| Charlotte, N. C.                      | Mecklenburg  | 805              | 29                       | 79.6                               | +0.9                      | 97      | 7    | 65     | 4    | 28                       | 5.30  | -0.19                     | 1.80                 | 0                        | 14                | 9                 | 13                        | 9         | sw.                   | Weather Bureau.              |
| Cheraw (1)                            | Chesterfield | 114              | 19                       | 80.2                               | -0.3                      | 97      | *8   | 61     | 5    | 26                       | 2.63  | -2.92                     | 0.51                 | 0                        | 13                | 12                | 6                         | 13        | w.                    | W. R. Godfrey.               |
| Cheraw (2)                            |              | 141              | 14                       |                                    |                           |         |      |        |      |                          | 2.69  | -3.73                     | 0.78                 | 0                        | 13                | 19                | 8                         | 4         | w.                    | Jno. H. Powe.                |
| Clarks Hill                           | Edgefield    | 500              | 5                        | 80.6                               |                           | 101     | 24   | 63     | 14   | 31                       | 5.97  |                           | 1.51                 | 0                        | 13                | 11                | 8                         | 12        |                       | Wm. S. Middleton.            |
| Clemson College                       | Oconee       | 850              | 16                       | 80.0                               | +1.0                      | 96      | *8   | 65     | *1   | 27                       | 2.41  | -2.80                     | 0.66                 | 0                        | 8                 | 24                | 6                         | 1         | s.                    | Jno. N. Hook.                |
| Columbia                              | Richland     | 351              | 20                       | 81.7                               | +0.6                      | 101     | 8    | 65     | 5    | 27                       | 3.56  | -2.50                     | 0.94                 | 0                        | 14                | 9                 | 14                        | 8         | sw.                   | Central Office.              |
| Conway                                | Horry        | 25               | 15                       | 82.4                               |                           | 103     | 9    | 64     | 5    | 31                       | 9.72  | +2.87                     | 3.54                 | 0                        | 10                | 20                | 3                         | 8         | sw.                   | P. C. Quattlebaum.           |
| Darlington                            | Darlington   | 175              | 12                       | 81.8                               |                           | 101     | *8   | 62     | 5    | 33                       | 4.92  | -0.52                     | 1.44                 | 0                        | 13                |                   |                           |           |                       | D. C. McCall.                |
| Dillon                                | Marion       | 100              | 3                        | 81.8                               |                           | 103     | 9    | 61     | 5    | 31                       | 3.06  |                           | 0.85                 | 0                        | 9                 |                   |                           |           |                       | A. E. Rowell.                |
| Due West                              | Abbeville    | 730              | 6                        | 80.7                               |                           | 97      | *7   | 64     | *1   | 28                       | 4.22  |                           | 0.95                 | 0                        | 8                 | 21                | 3                         | 7         | w.                    | Rev. O. Y. Bonner.           |
| Edisto                                | Bamberg      | 127              | 14                       |                                    |                           |         |      |        |      |                          | 9.01  | +4.03                     | 1.02                 | 0                        | 12                | 17                | 4                         | 10        | se.                   | Mrs. M. Thompson.            |
| Edlingham                             | Florence     | 106              | 15                       |                                    |                           |         |      |        |      |                          | 4.90  | +0.26                     | 2.00                 | 0                        | 10                | 22                | 1                         | 8         | sw.                   | H. B. McCall.                |
| Florence                              | Florence     | 136              | 19                       | 82.3                               | +1.0                      | 102     | 8    | 63     | 5    | 30                       | 4.91  | -0.45                     | 2.25                 | 0                        | 12                | 18                | 2                         | 11        | s.                    | H. K. Gilbert.               |
| Georgetown                            | Georgetown   | 12               | 14                       | 82.9                               | +2.4                      | 98      | 8    | 68     | *4   | 23                       | 7.66  | -0.26                     | 3.40                 | 0                        | 9                 | 8                 | 21                        | 2         | sw.                   | Reid Whitford.               |
| Greenville                            | Greenville   | 989              | 15                       | 76.4                               | -0.0                      | 95      | 8    | 60     | 5    | 30                       | 2.27  | -3.42                     | 0.88                 | 0                        | 6                 | 21                | 1                         | 9         | sw.                   | Mrs. S. A. Crittenden.       |
| Greenwood                             | Greenwood    | 671              | 19                       | 81.2                               | +1.2                      | 100     | *3   | 66     | 5    | 26                       | 3.83  | -1.09                     | 1.50                 | 0                        | 7                 | 19                | 0                         | 12        | w.                    | M. M. Calhoun.               |
| Heath Spring                          | Lancaster    | 568              | 6                        | 83.9                               |                           | 103     | 24   | 63     | 1    | 27                       | 4.78  |                           | 1.46                 | 0                        | 9                 | 16                | 9                         | 6         | w.                    | J. A. Weaver.                |
| Kingstree (1)                         | Williamsburg | 54               | 19                       | 83.2                               | +2.6                      | 97      | *8   | 70     | 5    | 24                       | 6.54  | +0.81                     | 1.30                 | 0                        | 14                | 20                | 9                         | 2         | ne.                   | J. A. Scott.                 |
| Kingstree (2)                         |              | 54               | 13                       |                                    |                           |         |      |        |      |                          | 5.78  | -0.04                     | 1.40                 | 0                        | 11                | 21                | 2                         | 8         | s.                    | A. O. Matthews.              |
| Liberty                               | Pickens      | 900              | 13                       | 80.4                               | +1.4                      | 103     | 9    | 63     | 5    | 35                       | 5.96  | +0.27                     | 1.80                 | 0                        | 10                | 16                | 14                        | 1         | sw.                   | Jno. T. Boggs.               |
| Little Mountain                       | Newberry     | 630              | 14                       | 81.1                               | +0.6                      | 101     | *9   | 66     | 5    | 28                       | 7.53  | +2.12                     | 2.00                 | 0                        | 17                | 11                | 14                        | 6         | sw.                   | John M. Sease, M. D.         |
| Newberry                              | Newberry     | 502              | 3                        | 82.8                               | +3.7                      | 104     | 21   | 63     | 5    | 33                       | 3.66  | -2.32                     | 1.08                 | 0                        | 12                | 10                | 12                        | 9         | sw.                   | W. G. Peterson.              |
| Pelzer                                | Anderson     | 873              | 2                        |                                    |                           |         |      |        |      |                          | 3.58  |                           | 1.62                 | 0                        | 9                 | 14                | 10                        | 7         | sw.                   | John M. Ward.                |
| Pinopolis                             | Berkeley     | 54               | 14                       |                                    |                           |         |      |        |      |                          |       |                           |                      |                          |                   |                   |                           |           |                       | E. P. Ravenel.               |
| St. George                            | Dorchester   | 109              | 19                       | 84.0                               | +3.6                      | 99      | 9    | 70     | *5   | 21                       | 5.99  | -0.05                     | 1.97                 | 0                        | 9                 | 24                | 0                         | 7         |                       | G. T. Lewis.                 |
| St. Matthews                          | Orangeburg   | 269              | 19                       | 80.1                               | -0.3                      | 95      | *9   | 66     | 5    | 20                       | 6.12  | -0.46                     | 1.13                 | 0                        | 11                | 20                | 0                         | 11        |                       | J. S. Warramaker.            |
| St. Stephen                           | Berkeley     | 73               | 15                       |                                    |                           |         |      |        |      |                          | 8.47  | +0.65                     | 1.60                 | 0                        | 13                | 20                | 3                         | 8         | s.                    | C. T. Shuler.                |
| Saluda                                | Saluda       | 536              | 6                        | 81.4                               |                           | 103     | 24   | 60     | 5    | 32                       | 2.99  |                           | 0.55                 | 0                        | 17                | 11                | 9                         | 10        | s.                    | Alvin Etheridge.             |
| Santee                                | Union        | 512              | 13                       | 80.6                               | +1.8                      | 101     | 23   | 63     | 5    | 33                       | 6.27  | +1.18                     | 2.01                 | 0                        | 11                | 11                | 11                        | 9         | w.                    | E. W. Jeter.                 |
| Savannah, Ga.                         | Chatham      | 71               | 38                       | 82.1                               | +1.6                      | 100     | 8    | 68     | 24   | 28                       | 7.62  | +1.44                     | 2.94                 | 0                        | 12                | 11                | 11                        | 9         | sw.                   | Weather Bureau.              |
| Smiths Mills                          | Williamsburg | 62               | 12                       |                                    |                           |         |      |        |      |                          | 4.49  | -2.18                     | 2.03                 | 0                        | 11                | 18                | 1                         | 12        | s.                    | H. van Keuren.               |
| Society Hill                          | Darlington   | 102              | 16                       | 81.2                               | +2.3                      | 96      | 9    | 63     | 4    | 22                       | 4.08  | -1.54                     | 1.68                 | 0                        | 11                | 18                | 7                         | 6         | sw.                   | J. Lucas.                    |
| Spartanburg                           | Spartanburg  | 875              | 16                       | 81.0                               | +1.8                      | 101     | *7   | 63     | 5    | 32                       | 3.39  | -2.14                     | 1.03                 | 0                        | 8                 | 26                | 2                         | 3         |                       | F. P. Robinson.              |
| Stateburg                             | Sumter       | 500              | 30                       | 81.7                               | +2.9                      | 99      | *8   | 66     | 5    | 24                       | 4.35  | -0.78                     | 1.09                 | 0                        | 13                |                   |                           |           |                       | W. W. Anderson, M. D.        |
| Summerville                           | Dorchester   | 75               | 10                       | 82.0                               | +2.8                      | 101     | 8    | 64     | 6    | 28                       | 5.35  | -0.48                     | 1.68                 | 0                        | 16                | 9                 | 15                        | 7         | sw.                   | Miss E. H. Gadsden.          |
| Trenton                               | Edgefield    | 620              | 14                       | 81.6                               | +0.8                      | 103     | 24   | 62     | 3    | 29                       | 4.33  | -2.57                     | 1.24                 | 0                        | 11                | 9                 | 21                        | 1         | s.                    | C. A. Long.                  |
| Trial                                 | Berkeley     | 85               | 21                       | 80.8                               | +2.1                      | 100     | 9    | 65     | 6    | 29                       | 6.98  | -0.64                     | 2.51                 | 0                        | 14                | 9                 | 16                        | 6         | w.                    | Eisell Gaillard.             |
| Walhalla                              | Oconee       | 1061             | 16                       | 81.0                               | +4.5                      | 105     | 9    | 56     | 15   | 34                       | 5.40  | -0.52                     | 1.90                 | 0                        | 5                 | 5                 | 26                        | 0         | w.                    | Miss Jessie Douthit.         |
| Walterboro                            | Colleton     | 69               | 4                        | 79.8                               |                           | 99      | 9    | 65     | 6    | 26                       | 5.91  |                           | 1.70                 | 0                        | 15                | 15                | 13                        | 2         |                       | J. A. Westerberg.            |
| Wilmington, N. C.                     | New Hanover  | 52               | 38                       | 80.3                               | +1.6                      | 100     | 8    | 64     | 5    | 28                       | 6.40  | -0.57                     | 1.44                 | 0                        | 16                | 11                | 18                        | 2         | sw.                   | Weather Bureau.              |
| Winnsboro                             | Fairfield    | 545              | 18                       | 80.8                               | +1.9                      | 98      | 9    | 65     | 5    | 23                       | 7.63  | +2.83                     | 3.50                 | 0                        | 8                 | 12                | 19                        | 0         | sw.                   | John W. Seigler.             |
| Winthrop College                      | York         | 690              | 8                        | 79.8                               | +1.8                      | 100     | *9   | 64     | 5    | 31                       | 4.85  | +0.47                     | 1.10                 | 0                        | 12                | 17                | 12                        | 2         | se.                   | E. R. Rivers.                |
| Yemassee                              | Beaufort     | 23               | 12                       | 79.8                               | +3.0                      | 99      | 9    | 65     | 1    | 27                       | 8.94  | +3.13                     | 1.90                 | 0                        | 15                | 23                | 1                         | 7         | sw.                   | J. G. Hutson.                |
| Yorkville                             | York         | 680              | 19                       | 82.2                               | +3.0                      | 102     | 9    | 65     | 5    | 27                       | 3.51  | -1.93                     | 0.73                 | 0                        | 8                 | 6                 | 16                        | 9         | se.                   | J. R. Schorb.                |
| MEANS—highest, lowest and dates, etc. |              |                  |                          | 81.4                               | +1.6                      | 106     | 8    | 56     | 15   | 35                       | 5.06  | -0.55                     | 3.54                 | 0                        | 11                | 13                | 13                        | 5         | sw.                   |                              |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.    † Maximum thermometer not standard.    ‡ Minimum thermometer not standard.    § Exposed not standard.  
\* On other dates also    a indicates 1 day missing, b, 2 days, etc.    ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JULY, 1907.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. 0, 100; 1, 101; 2, 102, etc.

† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



## TOTAL PRECIPITATION FOR JULY, 1902.

## DAILY PRECIPITATION FOR SOUTH CAROLINA, JULY, 1907.

| STATIONS.         | Day of Month. |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |      |      | Total. |      |      |      |      |      |      |
|-------------------|---------------|------|------|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|-----|-----|-----|-----|----|-----|-----|------|------|------|-----|-----|------|------|--------|------|------|------|------|------|------|
|                   | 1             | 2    | 3    | 4    | 5    | 6    | 7   | 8   | 9   | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19  | 20  | 21  | 22 | 23  | 24  | 25   | 26   | 27   | 28  | 29  | 30   | 31   |        |      |      |      |      |      |      |
| Aiken             |               |      | .30  | .50  |      |      |     |     |     |      |      | .10  |      |      | .42  | 1.80 |      |     | .40 |     |     |    |     |     | 1.10 | .20  | .10  |     |     | 1.40 | .45  |        | 6.87 |      |      |      |      |      |
| Allendale         |               |      | .47  | .12  | .28  |      |     |     |     |      |      |      | .40  | .55  |      |      | .95  |     |     |     |     |    |     |     |      | .36  |      |     |     | .33  | 1.67 | .20    | 5.33 |      |      |      |      |      |
| Anderson          |               |      | .17  |      |      |      |     |     |     | .97  | .05  | 1.80 | .02  |      |      |      | .44  | .01 | .04 |     |     |    |     |     |      | .16  |      |     |     |      | .75  |        | 4.41 |      |      |      |      |      |
| Augusta, Ga.      |               |      | .23  | .01  | T.   |      |     |     |     |      | T.   | .34  | .01  | T.   | .03  | .25  |      |     |     |     |     |    |     |     | .41  | 1.05 | .16  |     | .17 | .29  | .48  |        | 3.47 |      |      |      |      |      |
| Barksdale         |               |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |      |      |        |      |      |      |      |      |      |
| Batesburg         |               |      | T.   | .31  | .86  |      |     | T.  |     |      |      |      | T.   | T.   |      | .38  | .02  |     |     | .04 |     |    | T.  |     |      | .11  | .72  |     |     | .48  | .20  | .22    | 3.34 |      |      |      |      |      |
| Beaufort          |               |      | .02  | 2.17 | 2.22 |      |     |     |     | T.   | .15  | .06  | .48  | .08  | .01  |      |      |     |     |     |     | T. |     | .01 | .04  |      |      | T.  |     | .20  | .42  | .10    | 5.06 |      |      |      |      |      |
| Bennettsville     |               | .06  | .37  | .44  |      |      |     |     |     |      |      | .80  | .12  | .39  | .10  |      |      |     | .46 |     |     |    |     |     |      | .08  |      |     |     | .50  | .06  |        | 3.43 |      |      |      |      |      |
| Blackville        |               |      | 1.12 | .04  | .02  |      |     |     |     |      |      | .08  | .14  | .10  | .30  |      | .70  |     |     | .10 | T.  |    |     |     | .11  | .80  |      |     | .40 | .11  | .78  |        | 4.80 |      |      |      |      |      |
| Blairs            |               |      |      |      |      |      |     |     |     |      |      |      | 1.80 |      |      | 1.20 | .04  |     |     |     |     |    |     |     |      |      |      | .74 |     | 1.00 | .40  |        | 5.18 |      |      |      |      |      |
| Bowman            |               |      | .65  | .42  | .18  | T.   |     |     | T.  | T.   | .16  | .12  | .22  | .20  | T.   | .72  |      |     |     |     |     |    |     |     | .03  |      | .82  | T.  |     | 1.06 | .20  |        | 4.78 |      |      |      |      |      |
| Calhoun Falls     |               |      |      | .26  |      |      |     |     |     |      | .25  | .32  | .41  | .76  |      | .22  |      |     |     |     |     |    |     |     |      |      |      |     |     | .35  | .22  | .94    | 3.73 |      |      |      |      |      |
| Canden (1)        |               |      | .60  | 1.55 |      |      |     |     |     |      |      | .05  | .07  | .12  | T.   | .22  | .01  |     | .13 |     |     |    |     |     | .50  | .17  | .31  |     | .11 | .67  |      | T.     | 4.21 |      |      |      |      |      |
| Canden (2)        |               |      | .82  | .20  |      |      |     |     |     |      |      |      |      | .62  |      | .20  |      |     |     |     |     |    |     |     |      |      |      |     |     | .20  | .06  |        | 3.94 |      |      |      |      |      |
| Catawba           |               |      |      | .20  |      |      |     |     |     |      |      |      | T.   | .20  |      | .70  |      | .10 | .10 |     |     |    |     |     |      |      |      |     |     | .84  | .66  | .74    | .64  | 4.42 |      |      |      |      |
| Chappells         |               |      | 1.10 |      |      |      |     |     |     |      | .82  |      | .08  |      |      |      |      |     | .32 |     |     |    |     |     |      |      |      |     |     | .20  | .10  | .26    |      | 3.42 |      |      |      |      |
| Charleston        |               | .01  |      | .08  | .86  |      | .09 |     | .09 |      | .02  | .26  | .04  | .29  | T.   |      | .01  |     |     | .13 |     |    |     |     |      |      |      |     |     | .38  | .07  |        | 2.33 |      |      |      |      |      |
| Charlotte, N. C.  |               | T.   | .17  |      |      | .01  |     |     | .03 | .62  | .18  | .01  | 1.80 | .01  | T.   | .62  | T.   |     |     |     |     |    | T.  | .49 |      | .18  |      | .03 | .54 | .01  |      | 5.30   |      |      |      |      |      |      |
| Cheraw (1)        |               |      |      | .44  | .07  |      | .01 | T.  |     |      |      | .19  | .51  | .34  | .09  |      | .14  |     | .04 | .22 |     |    |     |     |      | .06  |      | .04 |     | .48  |      |        | 2.63 |      |      |      |      |      |
| Cheraw (2)        |               |      | T.   | .53  | .05  |      |     | .02 |     |      |      | .21  | .78  | .10  | .08  |      | .15  |     | .08 | .20 |     |    |     |     |      | .06  |      | .03 |     | .40  |      |        | 2.69 |      |      |      |      |      |
| Clark's Hill      |               |      | .24  | 1.09 | .19  |      |     |     |     | T.   | .24  | .32  | .75  | .07  | .21  | .51  |      |     |     |     | .09 |    |     |     |      |      | .15  | T.  |     | .70  | 1.51 | .08    | 5.97 |      |      |      |      |      |
| Clemson College   |               |      |      |      |      |      |     |     |     | .29  | .66  | .32  | .26  | .15  |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     | .15  | .49  |        | 2.41 |      |      |      |      |      |
| Columbia          |               |      | .30  | .29  |      |      |     |     |     | .02  | .02  | .21  | .01  | .94  |      | .54  |      |     |     |     |     |    |     |     |      | .20  | .81  | .13 |     | .02  | .06  | .01    | 3.56 |      |      |      |      |      |
| Conway            |               |      | T.   | .35  | .45  |      |     |     |     | T.   |      |      | 1.10 | .72  | 1.36 | 1.70 | .20  | T.  |     | T.  | T.  | T. |     |     |      |      | .10  |     |     |      | .85  | .12    |      | 9.72 |      |      |      |      |
| Darlington        |               |      |      | 1.44 |      |      |     | .16 |     | .01  |      |      | .10  | .11  | .40  | .15  | .04  |     | .35 | T.  | .11 |    |     |     |      |      |      |     |     |      | .85  | .12    |      | 4.92 |      |      |      |      |
| Dillon            |               |      | T.   | .60  |      |      | T.  |     |     |      | T.   | T.   | .85  |      | .36  | .04  | T.   |     |     | .05 |     |    |     |     |      |      |      |     |     | .73  |      |        | 3.06 |      |      |      |      |      |
| Due West          |               | .16  | .85  |      |      |      |     |     |     | .95  |      | .50  |      | .25  |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     | .76  | .51  |        | 9.01 |      |      |      |      |      |
| Edisto            |               |      |      | .63  |      | 1.02 | .95 |     |     |      |      |      | .46  | 1.00 | .97  |      | .76  |     |     |     |     |    |     |     |      | .59  | .90  |     |     | .39  | .71  | .63    | 4.90 |      |      |      |      |      |
| Effingham         |               |      |      | .50  | .15  |      |     |     |     | .25  |      | T.   |      |      |      | .20  | .40  |     |     |     |     |    |     |     |      |      |      |     |     | .10  | .25  | 1.00   | 4.90 |      |      |      |      |      |
| Florence          |               |      |      | .04  | .20  |      |     |     |     |      | .06  | .74  | .10  | 2.25 |      | .05  |      |     |     |     |     |    |     |     |      |      |      |     |     | .10  | .25  | 1.00   | 4.90 |      |      |      |      |      |
| Georgetown        |               |      |      |      | 3.40 | T.   |     |     |     | T.   | 1.00 |      | .30  | 1.00 | .10  |      | .22  | T.  | T.  | T.  | T.  | T. | T.  | T.  | T.   | T.   | T.   | T.  | T.  | 1.50 | T.   | T.     | 7.66 |      |      |      |      |      |
| Greenville        |               |      |      | .09  |      |      |     |     |     |      | .08  |      | .88  |      |      |      |      |     | .75 | .20 |     |    |     |     |      |      |      |     |     | .27  |      |        | 2.27 |      |      |      |      |      |
| Greenwood         |               | 1.50 | .60  |      |      |      |     |     |     |      |      |      | .80  |      |      |      |      |     |     | .05 |     |    |     |     |      |      |      |     |     | .60  | .10  | .18    |      | 3.81 |      |      |      |      |
| Heath Spring      |               | 1.46 |      |      |      |      |     |     |     |      |      | .58  |      |      |      | .18  | .10  | .48 |     |     |     |    |     |     |      |      |      |     |     | .38  | .20  | .02    | 4.78 |      |      |      |      |      |
| Kingstree (1)     |               |      |      | 1.30 | .74  | T.   |     | .88 |     |      | T.   | .96  | .07  | .40  | .60  | .75  | .12  | .04 |     |     |     |    |     |     |      |      |      |     |     | .23  | .03  |        | 6.54 |      |      |      |      |      |
| Kingstree (2)     |               |      |      | .37  | .23  |      |     | .95 |     |      |      | 1.40 |      | .35  | .60  | .75  | .13  | T.  |     |     |     |    |     |     |      |      |      |     |     | .28  | T.   |        | 5.78 |      |      |      |      |      |
| Liberty           |               | T.   | .02  |      |      |      |     |     | .50 | .70  | T.   | .60  |      | T.   | .55  |      | T.   | T.  | .50 | .02 |     |    | .02 |     |      |      |      |     |     | 1.25 | T.   | 1.80   | 5.66 |      |      |      |      |      |
| Little Mountain   |               | 1.69 | .19  |      |      |      |     |     |     |      | T.   | .58  | .20  | .02  | 1.02 | .41  | .05  | .01 |     |     |     |    |     |     | .39  | .18  | 2.00 | .31 | .36 | .07  | .07  | .02    | 7.53 |      |      |      |      |      |
| Newberry          |               | T.   | .10  |      |      |      |     |     |     | .05  | .15  | 1.08 | .01  | .59  | T.   | .02  | T.   | .03 | .60 |     |     |    |     |     |      |      |      |     |     | .12  | .14  | T.     | 3.66 |      |      |      |      |      |
| Pelzer            |               |      | .12  | .08  |      |      |     |     |     | .10  | T.   |      | .80  |      | .10  | .08  |      | T.  |     | .06 |     |    |     |     |      |      |      |     |     |      | .62  | 1.62   | 3.58 |      |      |      |      |      |
| Pinopolis         |               |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |      |      |        |      |      |      |      |      |      |
| St. George        |               |      |      | .31  |      | .07  |     |     |     |      |      | .12  | .10  | 1.02 | 1.80 |      | 1.97 |     | .20 |     |     |    |     |     |      |      |      |     |     |      | .40  |        | 5.99 |      |      |      |      |      |
| St. Matthews      |               |      |      | .32  | .20  |      |     |     |     |      |      | .90  | .68  |      |      |      | 1.13 |     | .63 |     |     |    |     |     |      |      |      |     |     |      | .50  | .91    | .12  |      | 8.47 |      |      |      |
| St. Stephens      |               |      |      | 1.40 |      |      |     |     |     | T.   | 1.60 | .09  | .88  | .35  | 1.10 | 1.35 | .05  |     |     |     |     |    |     |     |      |      |      |     |     |      | .73  | .01    | .05  | 6.12 |      |      |      |      |
| Saluda            |               |      |      | .17  | .08  |      |     |     |     | .08  | .30  | .32  | .27  | .02  |      | .24  | .15  | .05 | T.  |     |     |    |     |     |      |      |      |     |     |      | .02  | .55    | .01  | .48  | .02  | 2.99 |      |      |
| Santee            |               |      | .66  | T.   | T.   |      |     |     |     | .21  | T.   | .21  | .13  |      | 1.68 | T.   |      | .51 | .12 |     |     |    |     |     |      |      |      |     |     |      | 2.01 |        | .55  | .13  | 6.27 |      |      |      |
| Savannah, Ga.     |               | T.   | .30  | .89  | 2.09 |      |     |     |     | T.   | .97  | .55  | T.   | .12  |      |      |      |     |     |     |     |    |     |     |      | .78  | .38  |     | .32 |      | .03  | .06    | 1.13 | 7.62 |      |      |      |      |
| Smith Mills       |               | .08  | .10  | .08  |      |      |     |     |     | .01  | .20  |      | .61  | 1.05 | 2.03 |      | .03  |     |     |     |     |    |     |     |      |      |      |     |     |      | .11  |        |      | .21  | 4.49 |      |      |      |
| Society Hill      |               |      | .86  |      |      | .04  |     |     |     | .66  |      | .07  | 1.68 |      |      |      | .35  |     |     |     |     |    |     | .10 |      |      |      | .06 |     | .05  | .15  | .06    |      | 4.08 |      |      |      |      |
| Spartanburg       |               | .03  | .10  |      |      | T.   |     |     |     | T.   | T.   |      | .40  |      | T.   | T.   |      | .62 |     |     | T.  |    |     |     |      | .15  | T.   | .29 |     |      | 1.03 | .77    | 3.39 |      |      |      |      |      |
| Stateburg         |               | .31  |      | .04  | .04  |      |     |     |     |      | .28  | .10  | .22  | .82  |      |      |      |     |     |     |     |    |     |     | .24  | .04  | 1.09 |     | .80 | .34  | .03  |        | 4.35 |      |      |      |      |      |
| Summerville       |               |      | .21  | .08  | .11  |      | .04 |     | .11 |      | .03  | .43  | 1.47 | .21  | .05  | .17  |      |     |     |     |     |    |     |     |      |      |      |     |     |      | .02  | 1.68   |      | .05  | .03  | .66  | 5.35 |      |
| Trenton           |               |      | .05  | .70  | .32  |      |     |     |     |      | .12  | .03  | T.   | T.   |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |      | .36  | .54    | T.   | .20  | .55  | 1.24 | .22  | 4.33 |
| Trial             |               |      | .57  | .11  | .02  |      |     |     |     | T.   | 2.51 | .65  | .17  | .31  | 1.29 | .07  | T.   | .18 |     |     |     |    |     |     |      |      |      |     |     |      | .47  | .05    | T.   |      | .25  | .33  | 6.98 |      |
| Walhalla          |               |      |      |      |      |      |     |     |     | T.   | 1.45 |      | .45  | 1.90 |      |      |      |     |     |     |     |    |     |     |      |      |      |     |     |      | .17  |        |      |      | 1.43 | 5.40 |      |      |
| Walterboro        |               | 1.25 | .40  | .48  |      |      |     |     |     |      | .30  | .22  |      | .33  | .04  | .33  |      |     |     |     |     |    |     |     |      |      |      |     |     |      | .23  | .02    | 1.70 | .14  | .15  | .29  | .03  | 5.91 |
| Wilmington, N. C. |               | .22  |      | .05  |      |      |     | .04 | .06 | 1.26 |      | .10  | .13  | .71  | .76  | .03  | .10  |     | .44 |     |     |    |     |     |      |      |      |     |     |      | .01  |        | .71  | .04  |      | 6.40 |      |      |
| Winnboro          |               | 3.50 |      |      |      |      |     |     |     | .60  | .50  | T.   |      |      | 1.12 |      |      | .25 |     |     |     |    |     |     |      |      |      |     |     |      | 1.23 | .23    | .20  |      |      | 7.63 |      |      |
| Winthrop College  |               | T.   | .02  | T.   |      | T.   |     |     |     | .54  | T.   | .26  | .10  |      | 1.10 | .07  | .13  | T.  |     |     |     |    |     |     |      |      |      |     |     |      | 1.01 | .52    | .53  | .40  | 4.85 |      |      |      |
| Yemassee          |               |      | .57  | .83  | .50  |      |     |     |     | T.   |      | .20  | .94  | .55  | .08  | .13  | .30  |     |     |     |     |    |     |     |      |      |      |     |     |      | 1.10 | .11    |      | 1.59 |      |      |      |      |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR AUGUST, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

SEPTEMBER 28, 1907.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

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No. 8.

## GENERAL SUMMARY.

The weather was devoid of any noteworthy or abnormal features during August.

The mean temperature averaged above the normal over the eastern portion of the State, and below the normal over the western portion. The first twenty days were generally cooler than usual, excepting a few days, at intervals during the first ten days, which were very warm. During the last ten-day period the daily mean temperatures were above the normal over the whole State. The mean temperature for the month averaged about normal.

Maximum temperatures of 90°, or higher, were recorded in the eastern division during the first eight days and generally in all parts of the State from the 21st to the end of the month. At a number of stations the highest temperatures were recorded on the 7th and 8th, but at the majority of stations from the 28th to the 31st, which was the hottest period of the month.

The minimum temperatures were recorded on the 4th and 5th and on the 26th, 27th, and 28th at the majority of stations tho a few recorded their minimum on other days.

In conformity with the usual distribution, the heaviest rainfall occurred in the eastern division, differing materially from the distribution in last year when the heaviest rainfall occurred in the Central Savannah Valley and in the extreme northwest portions.

The area of excessive precipitation included all of Williamsburg County, and parts only of the adjacent counties. The rainfall was below the normal over practically all of the western division. The rainfall was well distributed during the month excepting the last five days when only light and widely scattered showers occurred, and drouthy conditions developed in a few sections in the western division.

Thunderstorms were of frequent occurrence, tho no severe local storms were recorded.

There was considerable cloudiness during the first twenty days, but the sunshine was abundant during the remainder of the month, making the average sunshine nearly normal.

## TEMPERATURE.

The mean temperature for August, 1907, was 79.4°, which is 0.1° below the normal. The highest local mean was 81.8° at Blackville, the lowest was 73.9° at Greenville. The monthly extremes were 101° at Anderson, Blackville, and Walterboro on the 31st, and 54° at Walhalla on the 4th and 5th, making the State range 47°. The greatest monthly local range was 45° at Walhalla, the least was 24° at St.

George. The mean of the daily maximum temperatures was 89.5°, and of the daily minimum temperatures was 69.2°, making the average daily range 20.3°.

## PRECIPITATION.

The average precipitation was 5.41 inches, which is 0.12 of an inch below the normal. The greatest local monthly amount was 11.40 inches at Effingham, the least was 2.06 inches at Florence. The greatest 24-hour rainfall was 3.65 inches at Society Hill on the 6th. The average number of days with 0.01 of an inch, or more, precipitation was 9, ranging from 5 at Blairs to 20 at Summerville.

EXCESSIVE PRECIPITATION.—At Batesburg on the 18th, 1.68 inch in 50 minutes; at Beaufort on the 6th, 3.60 inches in 2 hours; at Blackville on the 19th, 2.70 inches in 3 hours and 20 minutes; at Bowman on the 2d, 1.78 inch in 45 minutes, and on the 17th, 2.12 inches in 1 hour and 30 minutes; at Columbia on the 22d, 1.46 inch in 1 hour; at Effingham on the 18th, 3.20 inches in 3 hours; at Newberry on the 15th, 2.71 inches in one hour; at Saint Stephens on the 23d, 1.44 inch in 30 minutes; at Smiths Mills on the 3d, 3.10 inches in 1 hour and 40 minutes, and on the 19th, 3.04 inches in 4 hours; at Society Hill on the 6th, 3.65 inches in 24 hours; at Stateburg on the 15th-16th, 2.59 inches in 24 hours; at Winthrop College on the 24th, 1.83 inch in 1 hour and 30 minutes.

## WIND.

The prevailing direction of the wind was from the southwest at 18 stations, from the west at 10 stations, from the south at 9 stations, from the northeast at 6 stations, from the east at 4 stations, from the north at 2 stations, and from the northwest at 1 station.

HIGH WINDS.—High winds were noted at Beaufort on the 2d; at Bowman, Camden, Little Mountain, on the 9th; at Charleston on the 18th; at Columbia on the 17th; at Trial on the 12th, 14th, 29th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 13, of partly cloudy days was 13, and of cloudy days was 5.

## MISCELLANEOUS PHENOMENA.

HAIL.—At Smiths Mills on the 2d.

SOLAR HALOS.—At Liberty on the 13th.

LUNAR HALOS.—At Beaufort on the 16th; at Santuc on the 25th.

DENSE FOGS.—At Camden on the 13th, 17th, 30th; at Columbia on the 15th; at Greenville on the 3d; at Liberty on the 7th, 10th, 16th, 23d; at Newberry, Winthrop College on the 23d; at Saluda on the 3d, 4th; at Santuc on the 13th, 14th, 18th; at Society Hill on the 12th, 13th, 14th; at Stateburg on the 31st; at Trial on the 20th, 27th.

THUNDERSTORMS.—Thunderstorms occurred on 31 days. There were five periods of maximum frequency, namely on the 2d-3d, 8th-11th, 14th-18th, 22d-24th, and on the 29th, when from five to thirteen of the twenty cooperative stations that recorded thunderstorms reported their occurrence. They were comparatively infrequent on the 4th, 5th, 6th, 13th, 20th, 21st, 25th, 26th, 27th, 28th, 30th, and 31st, when from one to four only of the twenty stations reported their occurrence.



BAROMETER AND WIND TABLE FOR AUGUST, 1907.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.03      | 30.23    | 15    | 29.84   | 1     | 3.300           | 4.4             | 32                | nw.        | 18    |
| Charleston.       | 30.04      | 30.25    | 15    | 29.85   | 11    | 6.262           | 8.4             | 31                | se.        | 2     |
| Charlotte, N. C.  | 30.04      | 30.27    | 15    | 29.82   | 1     | 3.766           | 4.9             | 20                | w.         | 28    |
| Columbia.         | 30.03      | 30.26    | 15    | 29.84   | 1     | 3.764           | 5.0             | 27                | w.         | 17    |
| Savannah, Ga.     | 30.05      | 30.23    | 15    | 29.85   | 1     | 4.571           | 6.1             | 22                | n.         | 9     |
| Wilmington, N. C. | 30.03      | 30.28    | 15    | 29.83   | 1     | 4.446           | 6.0             | 38                | nw.        | 29    |
| Averages.         | 30.04      | 30.28    | 15    | 29.82   | 1     | 4.336           | 5.8             | 38                | nw.        | 29    |

RIVER GAGE READINGS, AUGUST, 1907.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 1.3   | 5.6      | 18    | 0.1     | *13   |
| Calhoun Falls    | 3.4   | 5.5      | 16    | 2.6     | 31    |
| Camden           | 6.7   | 14.0     | 25    | 4.8     | 9     |
| Catawba          | 2.1   | 4.8      | 21    | 1.7     | 8     |
| Chappells        | 3.2   | 7.0      | 18    | 1.9     | 9     |
| Cheraw           | 2.5   | 4.2      | 6     | 1.7     | *30   |
| Columbia         | 1.7   | 2.9      | *16   | 0.7     | 30    |
| Edisto           | 3.1   | 4.4      | *21   | 2.0     | *14   |
| Effingham        | 6.0   | 7.5      | 26    | 4.3     | 14    |
| Kingstree        | 6.2   | 9.0      | *30   | 3.0     | 2     |
| Mt. Holly, N. C. | 1.9   | 2.1      | 10    | 1.8     | *1    |
| Peizer           | 2.9   | 4.1      | 16    | 1.8     | *8    |
| Rhine            | 8.8   | 11.8     | 20    | 5.4     | 9     |
| St. Stephens     | 6.6   | 8.1      | 23    | 3.4     | 10    |
| Smith Mills      | 6.2   | 8.4      | 25    | 4.8     | 19    |

\* On other dates also.

## REMARKS BY OBSERVERS.

BEAUFORT.—The month was not as warm as August usually is, but the rainfall was slightly greater. The excessive rainfall on the 6th was local.—Sidney M. Benton. BOWMAN.—The temperature was remarkably uniform thruout the month. The most severe thunderstorm of the season came from the northeast, an unusual direction.—B. O. Evans. HEATH SPRING.—Showers were of frequent occurrence during the first and second decades; there was no rain from the 25th to the 31st inclusive.—J. A. Weaner. LIBERTY.—The weather conditions were nearly normal thruout the month, except that, owing to the absence of rain from the 25th to the 31st, the soil became dry by the end of the month.—Jno. T. Boggs. SANTUC.—The precipitation was ample during the first half of the month, but during the second half the rainfall was very light and the heat was excessive causing droughty conditions.—E. W. Jeter. SUMMERVILLE.—Thunderstorms occurred on twenty days, and each storm was accompanied by a measurable amount of rain. The relative humidity for the month was

83 per cent.—Miss E. H. Gadsden. TRENTON.—The precipitation was much below the normal, and since January 1st is 10.27 inches less than the average for the first eight months of the year.—A. C. Long.

DATA FOR CLEMSON COLLEGE, S. C.

## Temperature.

| Year  | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| 1893. |      |      |      | 63   | 66   | 73   | 80   |      |       |      |      |      |       |
| 1894. |      |      |      |      |      |      |      |      |       |      |      |      |       |
| 1895. |      |      |      |      |      |      |      |      |       |      |      |      |       |
| 1896. |      |      |      |      | 76   | 78   | 81   | 81   | 74    | 61   | 54   | 41   |       |
| 1897. | 39   | 46   | 53   |      |      | 79   | 77   | 73   | 65    | 53   | 45   | 45   |       |
| 1898. | 46   | 41   | 56   | 55   | 72   | 79   | 77   | 78   | 73    | 61   | 44   | 41   | 60    |
| 1899. | 42   | 40   | 52   | 58   | 69   | 78   | 80   | 71   | 63    | 52   | 41   | 60   | 61    |
| 1900. | 41   | 40   | 49   | 60   | 68   | 74   | 80   | 82   | 76    | 67   | 53   | 44   | 61    |
| 1901. | 41   | 41   | 49   | 54   | 69   | 76   | 81   | 76   | 70    | 60   | 45   | 39   | 58    |
| 1902. | 38   | 38   | 50   | 58   | 72   | 77   | 79   | 77   | 69    | 61   | 55   | 41   | 60    |
| 1903. | 39   | 42   | 57   | 57   | 69   | 71   | 79   | 80   | 73    | 61   | 49   | 39   | 59    |
| 1904. | 38   | 42   | 54   | 58   | 67   | 75   | 77   | 77   | 73    | 61   | 50   | 40   | 59    |
| 1905. | 35   | 37   | 53   | 62   | 72   | 78   | 79   | 77   | 73    | 63   | 53   | 44   | 61    |
| 1906. | 46   | 46   | 51   | 63   | 69   | 77   | 78   | 79   | 76    | 60   | 51   | 45   | 62    |
| M's   | 40.7 | 41.3 | 52.3 | 58.9 | 70.0 | 76.4 | 79.0 | 78.7 | 73.8  | 62.0 | 50.8 | 50.1 | 61.2  |

## Precipitation.

| Year  | Jan.  | Feb.  | Mar. | April | May  | June  | July  | Aug.  | Sept. | Oct. | Nov. | Dec.  | Year. |
|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|------|-------|-------|
| 1892. | 5.08  | 5.03  | 3.13 | 2.94  | 2.10 | 10.55 | 6.98  | 4.41  | 5.13  | 0.51 | 4.45 | 3.08  | 53.39 |
| 1893. | 2.00  | 8.13  | 2.24 | 3.41  | 3.32 | 5.38  | 1.63  | 2.67  | 4.17  | 3.89 | 2.05 | 1.87  | 40.76 |
| 1894. | 5.95  | 4.73  | 2.63 | 1.93  | 3.08 | 4.71  | 0.21  | 3.91  | 2.74  | 3.10 | 0.81 | 6.46  | 46.29 |
| 1895. | 8.21  | 2.09  | 5.06 | 5.52  | 4.31 | 4.99  | 1.30  | 7.22  | 0.13  | 1.22 | 2.77 | 4.77  | 48.49 |
| 1896. | 4.19  | 5.19  | 1.63 | 0.62  | 3.07 | 1.94  | 11.28 | 1.02  | 9.21  | 1.88 | 7.55 | 1.59  | 51.33 |
| 1897. | 3.72  | 6.63  | 6.15 |       |      | 2.63  |       | 2.44  | 1.52  | 4.23 | 3.61 | 2.96  |       |
| 1898. | 3.45  | 0.97  | 3.20 | 3.63  | 0.85 | 1.71  | 10.31 | 7.91  | 5.52  | 5.94 | 3.61 | 3.68  | 50.18 |
| 1899. | 5.61  | 7.93  | 8.02 | 2.70  | 1.26 | 3.52  | 4.00  | 3.00  | 1.44  | 3.35 | 2.35 | 3.43  | 46.61 |
| 1900. | 2.80  | 10.02 | 5.52 | 7.39  | 2.12 | 14.29 | 2.59  | 3.43  | 2.64  | 3.81 | 2.33 | 3.99  | 60.93 |
| 1901. | 5.32  | 3.77  | 6.18 | 6.69  | 7.16 | 8.92  | 2.56  | 13.17 | 6.83  | 1.30 | 0.75 | 9.50  | 70.15 |
| 1902. | 4.14  | 9.44  | 4.70 | 1.47  | 1.42 | 4.28  | 4.68  | 3.17  | 5.42  | 3.14 | 4.43 | 5.22  | 51.51 |
| 1903. | 5.21  | 12.48 | 8.21 | 4.17  | 0.60 | 4.01  | 2.26  | 1.41  | 1.88  | 1.60 | 2.43 | 2.10  | 49.46 |
| 1904. | 3.84  | 3.87  | 4.77 | 1.61  | 2.08 | 3.82  | 1.44  | 9.48  | 1.89  | 0.00 | 2.41 | 3.56  | 38.77 |
| 1905. | 3.62  | 4.90  | 1.22 | 2.79  | 8.65 | 1.07  | 7.29  | 7.20  | 1.66  | 3.51 | 1.49 | 10.09 | 53.49 |
| 1906. | 11.65 | 1.08  | 8.02 | 1.89  | 2.74 | 5.67  | 17.77 | 7.25  | 8.82  | 4.11 | 1.66 | 5.97  | 76.73 |
| M's   | 4.99  | 5.75  | 4.77 | 3.36  | 3.17 | 5.10  | 5.74  | 5.39  | 3.51  | 2.74 | 2.81 | 3.96  | 51.33 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 46                    | *1906 | 35                   | 1905  | 11.65             | 1906  | 2.00           | 1893  |
| February  | 46                    | *1906 | 37                   | 1905  | 12.48             | 1903  | 0.97           | 1898  |
| March     | 57                    | 1904  | 49                   | *1901 | 8.21              | 1903  | 1.22           | 1905  |
| April     | 63                    | *1906 | 54                   | 1901  | 7.39              | 1900  | 0.92           | 1896  |
| May       | 76                    | 1896  | 66                   | 1893  | 8.05              | 1905  | 0.00           | 1903  |
| June      | 79                    | *1898 | 73                   | 1893  | 14.29             | 1900  | 1.07           | 1895  |
| July      | 81                    | *1901 | 77                   | 1893  | 17.77             | 1906  | 1.30           | 1895  |
| August    | 82                    | 1906  | 76                   | *1904 | 13.17             | 1901  | 1.62           | 1896  |
| September | 76                    | *1906 | 69                   | 1902  | 9.21              | 1896  | 0.13           | 1895  |
| October   | 65                    | 1897  | 60                   | *1906 | 5.94              | 1898  | 0.00           | 1904  |
| November  | 55                    | 1902  | 44                   | 1818  | 7.55              | 1896  | 0.75           | 1901  |
| December  | 45                    | *1906 | 39                   | *1903 | 10.09             | 1905  | 1.59           | 1896  |

\* And other years.

COMPARATIVE AUGUST DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |               |                |                  | Number Rainy Days. | Prevailing Wind Direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|---------------|----------------|------------------|--------------------|----------------------------|
|           | Mean.        | Mean Maximum. | Mean Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |               | Least Monthly. |                  |                    |                            |
|           |              |               |               |          |          |                | Amount.           | Place.        | Amount.        | Place.           |                    |                            |
| 1894..... | 77.9         | 87.2          | 69.7          | 102      | 55       | 7.28           | 12.26             | Society Hill. | 0.88           | Simpsonville.    | 11                 | SW.                        |
| 1895..... | 79.4         | 88.1          | 71.1          | 101      | 55       | 7.95           | 12.00             | Holland.      | 3.82           | Yemassee.        | 13                 | SW.                        |
| 1896..... | 80.4         | 90.2          | 70.9          | 105      | 52       | 4.14           | 10.21             | Kingstree.    | 1.02           | Clemson College. | 7                  | SW.                        |
| 1897..... | 78.0         | 87.5          | 68.9          | 102      | 57       | 5.16           | 9.93              | Trenton.      | 1.27           | Winnsboro.       | 9                  | SW.                        |
| 1898..... | 78.7         | 86.7          | 70.7          | 99       | 57       | 9.81           | 24.68             | Port Royal.   | 4.28           | Gaffney.         | 18                 | SW.                        |
| 1899..... | 81.2         | 91.1          | 71.2          | 103      | 59       | 6.26           | 17.94             | Pinopolis.    | 1.33           | Cheraw.          | 10                 | SW.                        |
| 1900..... | 83.0         | 94.8          | 71.3          | 106      | 60       | 2.13           | 5.55              | Yemassee.     | 0.27           | Cheraw.          | 5                  | SW.                        |
| 1901..... | 78.6         | 87.0          | 70.2          | 97       | 57       | 9.01           | 19.32             | Liberty.      | 3.23           | Beaufort.        | 15                 | S.                         |
| 1902..... | 78.6         | 88.8          | 68.3          | 104      | 55       | 5.07           | 8.68              | Batesburg.    | 1.20           | Spartanburg.     | 12                 | SW.                        |
| 1903..... | 80.6         | 90.6          | 70.5          | 105      | 60       | 7.15           | 12.83             | St. Stephens. | 3.05           | Clarks Hill.     | 12                 | SW.                        |
| 1904..... | 77.6         | 87.4          | 67.8          | 102      | 54       | 8.47           | 13.43             | Effingham.    | 3.92           | Aiken.           | 14                 | SW.                        |
| 1905..... | 77.9         | 87.8          | 68.0          | 107      | 46       | 5.69           | 10.87             | Santuc.       | 2.30           | Beaufort.        | 11                 | SW.                        |
| 1906..... | 80.6         | 89.3          | 71.9          | 100      | 60       | 6.62           | 12.45             | Spartanburg.  | 2.00           | Allendale.       | 15                 | SW.                        |
| 1907..... | 79.4         | 89.5          | 69.2          | 101      | 54       | 5.41           | 11.40             | Effingham.    | 2.06           | Florence.        | 9                  | SW.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST, 1907.

| STATIONS                              | COUNTIES     | Temperature—degrees Fahrenheit |      |             |      |        |        |      |               |       |             | Precipitation—inches |             |      |        |        |      |               |       |                       |  | Remarks |
|---------------------------------------|--------------|--------------------------------|------|-------------|------|--------|--------|------|---------------|-------|-------------|----------------------|-------------|------|--------|--------|------|---------------|-------|-----------------------|--|---------|
|                                       |              | Daily range                    |      |             |      |        |        |      |               |       |             | Monthly totals       |             |      |        |        |      |               |       |                       |  |         |
|                                       |              | Extremes                       | Mean | Daily range | High | Lowest | Lowest | High | Greatest fall | Total | Daily range | Mean                 | Daily range | High | Lowest | Lowest | High | Greatest fall | Total |                       |  |         |
| Aiken                                 | Aiken        | 508                            | 23   | 9.8         | +0.8 | 68     | 78     | 65   | *5            | 31    | 5.70        | -0.02                | 2.10        | 0    | 8      | 17     | 14   | 0             | SW.   | C. F. McGowan, M. D.  |  |         |
| Alhambra                              | Barnwell     | 186                            | 19   | 81.7        | -1.8 | 97     | 78     | 68   | *5            | 24    | 4.31        | -3.31                | 1.00        | 0    | 6      | 0      | 25   | 5             | W.    | A. R. Hoot            |  |         |
| Anderson                              | Anderson     | 704                            | 0    | 78.3        | +1.1 | 101    | 31     | 61   | *1            | 33    | 1.13        | -1.19                | 2.25        | 0    | 10     | 16     | 2    | 14            | W.    | H. H. Russell.        |  |         |
| Angusta, Ga.                          | Richmond     | 131                            | 36   | 80.1        | +1.5 | 98     | 31     | 66   | 27            | 28    | 3.92        | -1.65                | 0.92        | 0    | 13     | 16     | 13   | 2             | SW.   | Weather Bureau.       |  |         |
| Barksdale                             | Laurens      | 680                            | 6    | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | ...    | ...    | ...  | ...           | ...   | J. T. Garrett         |  |         |
| Batesburg                             | Lexington    | 656                            | 10   | 78.2        | -1.0 | 96     | *7     | 61   | 12            | 12    | 4.11        | -1.50                | 1.68        | 0    | 8      | 15     | 8    | 8             | W.    | E. J. Hite            |  |         |
| Beaufort                              | Beaufort     | 20                             | 21   | 80.7        | -1.0 | 97     | 71     | 70   | 23            | 28    | 7.20        | -0.51                | 3.00        | 0    | 16     | 7      | 21   | 3             | SW.   | S. M. Benton          |  |         |
| Bennettsville                         | Marlboro     | 151                            | 6    | 80.0        | ...  | 98     | 28     | 58   | 27            | 30    | 2.26        | ...                  | 0.62        | 0    | 9      | 16     | 12   | 3             | W.    | C. S. McGuff          |  |         |
| Blackville                            | Barnwell     | 200                            | 19   | 81.8        | -1.5 | 101    | 31     | 62   | 28            | 30    | 1.05        | -1.04                | 2.20        | 0    | 6      | 16     | 9    | 6             | SW.   | Miss M. L. Lawrence   |  |         |
| Barnes                                | Fairfield    | 203                            | 2    | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 5      | 20     | 6    | 5             | SW.   | T. S. McMeekin        |  |         |
| Bowman                                | Orangeburg   | 160                            | 6    | 80.9        | ...  | 98     | *8     | 64   | 5             | 27    | 3.38        | -2.12                | 0           | 0    | 9      | 18     | 12   | 1             | W.    | B. O. Evans           |  |         |
| Calhoun Falls                         | Abbeville    | 508                            | 14   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 7      | 24     | 0    | 7             | SW.   | P. J. Pfeiffer        |  |         |
| Camden (1)                            | Kershaw      | ...                            | 2    | 70.8        | ...  | 92     | *2     | 58   | 4             | 25    | 5.74        | -1.46                | 0           | 0    | 13     | 19     | 6    | 6             | SW.   | J. B. McCall          |  |         |
| Camden (2)                            | Kershaw      | 222                            | 11   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 12     | 21     | 5    | 5             | SW.   | W. C. Brown           |  |         |
| Canawha                               | York         | ...                            | 2    | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 5      | 14     | 8    | 9             | SW.   | James Y. Bice         |  |         |
| Chappells                             | Newberry     | 402                            | 2    | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 8      | 19     | 13   | 2             | SW.   | W. R. Zimmerman       |  |         |
| Charleston                            | Charleston   | 18                             | 38   | 81.2        | +0.9 | 96     | 31     | 71   | 11            | 18    | 5.04        | -1.93                | 1.29        | 0    | 11     | 8      | 19   | 1             | SW.   | Weather Bureau.       |  |         |
| Charlotte, N. C.                      | Charleston   | 80.8                           | 20   | 77.2        | +0.6 | 92     | 8      | 60   | 4             | 24    | 1.81        | -3.71                | 0.50        | 0    | 11     | 1      | 15   | 9             | SW.   | Weather Bureau.       |  |         |
| Cheraw (1)                            | Chesterfield | 144                            | 19   | 77.7        | -1.4 | 93     | 28     | 58   | *5            | 31    | 5.13        | -0.27                | 1.07        | 0    | 9      | 8      | 15   | 8             | SW.   | W. R. Godfrey         |  |         |
| Cheraw (2)                            | Chesterfield | 144                            | 14   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 9      | 8      | 11   | 12            | SW.   | Jno. H. Powe          |  |         |
| Clarks Hill                           | Edgefield    | 600                            | 5    | 78.4        | ...  | 98     | 31     | 62   | *7            | 33    | 2.45        | -0.64                | 1.00        | 0    | 6      | 8      | 11   | 12            | SW.   | Wm. S. Middleton      |  |         |
| Clemson College                       | Oconee       | 850                            | 16   | 76.8        | -3.3 | 91     | 31     | 61   | 4             | 22    | 4.74        | -0.18                | 2.00        | 0    | 7      | 19     | 6    | 3             | SW.   | Jno. N. Hook          |  |         |
| Columbia                              | Richland     | 351                            | 20   | 79.8        | +0.3 | 95     | 25     | 65   | 27            | 26    | 4.67        | -2.11                | 1.93        | 0    | 11     | 7      | 17   | 7             | SW.   | Central Office        |  |         |
| Conway                                | Marion       | 25                             | 15   | 80.4        | ...  | 97     | 29     | 65   | 5             | 25    | 8.67        | +2.46                | 2.20        | 0    | 15     | 13     | 3    | 15            | SW.   | P. C. Quattlebaum     |  |         |
| Darlington                            | Darlington   | 175                            | 12   | 79.6        | ...  | 98     | *20    | 58   | 16            | 38    | 3.51        | -1.03                | 0.90        | 0    | 19     | 17     | 14   | 0             | SW.   | D. C. McCall          |  |         |
| Dillon                                | Marion       | 100                            | 3    | 80.3        | ...  | 96     | 8      | 61   | 5             | 26    | 4.31        | -1.02                | 0           | 0    | 6      | 21     | 7    | 3             | W.    | A. E. Rowell          |  |         |
| Dne West                              | Abbeville    | 730                            | 6    | 78.8        | ...  | 95     | *30    | 65   | 26            | 23    | 3.06        | -1.20                | 0           | 0    | 6      | 21     | 7    | 3             | W.    | Rev. O. Y. Bonner     |  |         |
| Edisto                                | Bamberg      | 127                            | 14   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 7      | 18     | 4    | 9             | ne.   | Mrs. M. Thompson      |  |         |
| Edinham                               | Florence     | 106                            | 15   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 12     | 17     | 3    | 11            | W.    | H. B. McCall          |  |         |
| Florence                              | Florence     | 136                            | 19   | 80.6        | +0.1 | 96     | 62     | 5    | 30            | 2.06  | -3.76       | 0.83                 | 0           | 4    | 9      | 16     | 4    | 11            | ne.   | H. K. Gilbert         |  |         |
| Georgetown                            | Georgetown   | 12                             | 14   | 81.1        | +0.3 | 95     | 29     | 68   | *4            | 22    | 6.51        | +0.51                | 1.67        | 0    | 14     | 1      | 30   | 0             | SW.   | Reid Whitford         |  |         |
| Greenville                            | Greenville   | 980                            | 15   | 73.9        | -3.2 | 93     | 26     | 55   | 9             | 31    | 5.05        | -0.51                | 1.00        | 0    | 11     | 22     | 0    | 9             | ne.   | Mrs. S. A. Crittenden |  |         |
| Greenwood                             | Greenwood    | 6-1                            | 19   | 78.2        | -1.0 | 91     | *7     | 62   | 4             | 27    | 3.71        | -1.81                | 1.20        | 0    | 9      | 22     | 0    | 9             | W.    | M. M. Calhoun         |  |         |
| Heath Spring                          | Lancaster    | 568                            | 6    | 80.0        | ...  | 96     | *9     | 60   | 4             | 24    | 5.70        | -1.03                | 0           | 0    | 13     | 19     | 3    | 9             | W.    | J. A. Weaver          |  |         |
| Kingstree (1)                         | Williamsburg | 54                             | 19   | 80.2        | +0.2 | 91     | 9      | 66   | 5             | 20    | 8.23        | +2.15                | 2.00        | 0    | 13     | 19     | 3    | 9             | SW.   | J. A. Scott           |  |         |
| Kingstree (2)                         | Williamsburg | 54                             | 13   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 10     | 22     | 4    | 8             | SW.   | A. O. Matthews        |  |         |
| Liberty                               | Pickens      | 900                            | 13   | 77.6        | +0.2 | 95     | *8     | 60   | 4             | 28    | 4.35        | -2.48                | 1.40        | 0    | 9      | 16     | 13   | 2             | SW.   | Jno. T. Boggs         |  |         |
| Little Mountain                       | Newberry     | 610                            | 14   | 79.4        | -0.8 | 98     | 28     | 65   | *4            | 28    | 5.90        | -2.15                | 0.74        | 0    | 11     | 18     | 13   | 0             | SW.   | John M. Sasser, M. D. |  |         |
| Newberry                              | Newberry     | 502                            | 3    | 80.3        | +1.4 | 98     | 31     | 62   | 27            | 30    | 2.24        | -0.06                | 2.71        | 0    | 12     | 10     | 14   | 7             | SW.   | W. G. Peterson        |  |         |
| Pelzer                                | Anderson     | 873                            | 2    | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 7      | 12     | 10   | 9             | SW.   | John M. Ward          |  |         |
| Pinopolis                             | Berkeley     | 54                             | 14   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | ...    | ...    | ...  | ...           | ...   | E. P. Ravenel         |  |         |
| St. George                            | Dorchester   | 109                            | 19   | 81.3        | +1.6 | 94     | 29     | 70   | *5            | 22    | 5.52        | -0.88                | 2.05        | 0    | 9      | 24     | 0    | 7             | SW.   | G. T. Lewis           |  |         |
| St. Matthews                          | Orangeburg   | 209                            | 19   | 77.8        | -2.6 | 92     | 8      | 65   | 5             | 22    | 3.03        | -3.29                | 1.72        | 0    | 7      | 23     | 0    | 8             | SW.   | J. S. Warramaker      |  |         |
| St. Stephen                           | Berkeley     | 73                             | 15   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 10     | 12     | 1    | 14            | SW.   | C. T. Shuler          |  |         |
| Satula                                | Satula       | 536                            | 6    | 79.4        | ...  | 98     | *6     | 58   | 27            | 35    | 4.02        | -2.25                | 0           | 0    | 8      | 17     | 7    | 7             | SW.   | Alvin Etheridge       |  |         |
| Satula                                | Union        | 512                            | 13   | 78.6        | +0.1 | 97     | 31     | 60   | *5            | 30    | 3.43        | -1.66                | 1.20        | 0    | 9      | 18     | 4    | 4             | W.    | E. W. Jeter           |  |         |
| Savannah, Ga.                         | Chatham      | 71                             | 38   | 80.9        | +1.5 | 90     | 29     | 69   | 18            | 21    | 4.19        | -3.31                | 2.01        | 0    | 16     | 8      | 18   | 5             | SW.   | Weather Bureau.       |  |         |
| Smiths Mills                          | Williamsburg | 62                             | 12   | ...         | ...  | ...    | ...    | ...  | ...           | ...   | ...         | ...                  | ...         | ...  | 12     | 18     | 0    | 13            | SW.   | H. van Keulen         |  |         |
| Society Hill                          | Darlington   | 102                            | 16   | 78.0        | -0.4 | 92     | 28     | 61   | 26            | 24    | 6.60        | +0.92                | 3.65        | 0    | 12     | 14     | 11   | 6             | SW.   | J. J. Lucas           |  |         |
| Spartanburg                           | Spartanburg  | 875                            | 16   | 77.8        | -1.2 | 97     | 31     | 57   | 4             | 30    | 4.09        | -1.44                | 0.99        | 0    | 13     | 13     | 4    | 14            | SW.   | F. P. Robinson        |  |         |
| Stateburg                             | Sumter       | 500                            | 30   | 78.8        | +1.1 | 92     | 28     | 65   | 4             | 22    | 7.40        | +2.27                | 2.59        | 0    | 13     | 6      | 13   | 12            | SW.   | W. W. Anderson, M. D. |  |         |
| Summerville                           | Dorchester   | 75                             | 10   | 80.1        | +0.1 | 97     | 31     | 64   | 5             | 26    | 7.35        | -1.25                | 1.56        | 0    | 20     | 4      | 20   | 7             | SW.   | Miss E. H. Gadsden    |  |         |
| Trenton                               | Edgefield    | 620                            | 14   | 78.7        | -1.7 | 96     | 31     | 60   | 24            | 24    | 3.15        | -3.45                | 0.82        | 0    | 7      | 8      | 22   | 1             | SW.   | C. A. Long            |  |         |
| Trial                                 | Berkeley     | 85                             | 21   | 78.0        | +0.3 | 94     | 31     | 64   | 5             | 24    | 8.93        | +1.31                | 1.74        | 0    | 14     | 7      | 19   | 5             | W.    | Etsell Gaillard       |  |         |
| Walhalla                              | Oconee       | 1001                           | 16   | 77.8        | +1.1 | 99     | 31     | 54   | *3            | 35    | 4.07        | -1.85                | 1.40        | 0    | 8      | 5      | 24   | 2             | W.    | Miss Jessie Donthit   |  |         |
| Walterboro                            | Colleton     | 60                             | 4    | 80.8        | ...  | 101    | 31     | 64   | 5             | 29    | 6.18        | -1.21                | 0           | 0    | 18     | 6      | 22   | 3             | SW.   | J. A. Westerberg      |  |         |
| Wilmington, N. C.                     | New Hanover  | 52                             | 38   | 78.8        | +2.2 | 94     | 8      | 65   | 29            | 22    | 10.17       | +4.66                | 2.71        | 0    | 15     | 3      | 24   | 4             | SW.   | Weather Bureau.       |  |         |
| Winnboro                              | Fairfield    | 545                            | 18   | 78.6        | -0.6 | 93     | 28     | 64   | *3            | 23    | 4.62        | -0.18                | 1.75        | 0    | 8      | 20     | 11   | 0             | SW.   | John W. Seigler       |  |         |
| Winthrop College                      | York         | 690                            | 8    | 77.4        | -0.6 | 93     | 31     | 60   | 4             | 24    | 4.32        | -0.06                | 1.88        | 0    | 10     | 19     | 10   | 2             | SW.   | E. R. Rivers          |  |         |
| Yemassee                              | Beaufort     | 23                             | 12   | 79.4        | -2.2 | 97     | *8     | 65   | 5             | 23    | 5.02        | -1.75                | 1.60        | 0    | 13     | 19     | 2    | 10            | SW.   | J. G. Hutson          |  |         |
| Yorkville                             | York         | 680                            | 19   | 79.3        | +1.4 | 96     | *7     | 61   | 4             | 28    | 7.13        | +2.17                | 1.54        | 0    | 12     | 5      | 19   | 7             | ne.   | J. R. Schorb          |  |         |
| MEANS—highest, lowest and dates, etc. |              |                                | 79.4 | -0.1        | 101  | 31     | 54     | *4   | 38            | 5.41  | -0.12       | 3.65                 | 0           | 9    | 13     | 13     | 5    | SW.           |       |                       |  |         |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Exposed not standard.  
\* On other dates also a indicates 1 day missing b, 2 days, etc. § The state of sky at 8 a.m. not used in averages.

ERRATA.

The following changes should be made in the June, 1907, number of the Monthly Report: On page 45, the minimum at Summerville 53 on the 3d, should be 55 on the 3d. On pages 45 and 48, the total precipitation at Clarks Hill 5.27, should be 4.95; at Dillon 6.55, should be 6.75; at Satula 4.30, should be 4.28; at Yemassee 6.12, should be 6.32.  
The following changes should be made in the July number of the Monthly Report: On page 53, total precipitation at Georgetown 7.66, should be 8.66; the monthly mean temperature at Heath Spring 83.0, should be 83.8; at Stateburg 81.7, should be 81.5; at Winthrop College 79.8, should be 80.2; at Yemassee 70.8, should be 81.0. On page 54, the mean maximum temperature at Stateburg 91.2, should be 90.8; at Winthrop College, the maximum temperature on the 2d 81, should be 91; on the 16th 80, should be 90; on the 19th 83, should be 93; and the mean maximum temperature 90.1, should be 91.0; the mean minimum temperature at Yemassee 70.1, should be 72.4. On page 56, the precipitation at Georgetown on the 14th 0.10, should be 1.00, and the total should be 8.66.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING AUGUST, 1907.

[illegible]

The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



TOTAL PRECIPITATION FOR AUGUST, 1907.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1907.

| STATIONS.         | Day of Month. |      |      |      |     |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |      |      | Total. |       |
|-------------------|---------------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|------|------|--------|-------|
|                   | 1             | 2    | 3    | 4    | 5   | 6    | 7    | 8    | 9    | 10   | 11  | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26  | 27  | 28  | 29  | 30   | 31   |        |       |
| Aiken             |               | .50  |      |      |     |      |      |      | .25  |      |     | 2.10 |      | .10  | 2.05 |      |      |      | .25  |      |      |      | .37  | .10  |      |     |     |     |     |      |      |        | 5.72  |
| Allendale         |               |      |      |      |     |      |      |      | .67  |      |     |      | .38  |      | 1.33 |      |      |      | .20  | 1.90 | .09  |      |      |      |      |     |     |     |     |      |      |        | 4.57  |
| Anderson          |               | T.   |      |      |     |      |      | .29  | .31  | 1.73 | .12 |      |      |      | .07  | 2.25 |      |      | .35  | .07  |      | .17  |      |      |      |     |     |     |     |      |      |        | 4.43  |
| Augusta, Ga.      |               |      |      |      |     | .78  |      |      | .47  | .20  | .08 | .01  |      |      | .52  | .51  |      |      | .29  | .58  | T.   | T.   | .05  | .03  |      |     |     |     | .02 |      | .38  |        | 3.92  |
| Barksdale         |               |      |      | T.   |     |      | 1.09 |      |      | .32  |     | .05  | .06  |      |      |      | T.   | 1.68 | .42  |      |      |      | .26  | .23  |      |     |     |     |     |      |      |        | 4.11  |
| Batesburg         |               | .10  | .06  | .10  |     | 3.60 |      | .42  | .10  | .17  | .73 | .14  |      |      |      | .06  |      | 1.13 | .21  |      |      |      | .22  | .02  | .09  |     |     |     |     |      |      | .05    | 7.20  |
| Beaufort          |               |      | .22  | .03  |     | .62  | .05  |      | .06  |      |     |      |      |      |      | .41  | .11  | .09  |      |      |      |      | .61  |      |      |     |     |     |     |      |      |        | 2.20  |
| Bennettsville     |               |      | .02  | T.   |     |      |      | .23  | .46  |      | .11 |      |      | .01  | .11  |      | 3.70 |      |      |      |      | .11  |      |      |      |     |     |     |     |      |      |        | 4.05  |
| Blackville        |               |      |      |      |     |      |      |      |      |      |     |      |      |      |      | 1.34 |      | .70  |      |      |      |      | .24  | .70  | .40  |     |     |     |     |      |      |        | 3.38  |
| Blairs            |               |      |      |      |     |      |      |      | .40  | T.   |     | T.   | T.   | .32  | .73  | T.   | 2.12 | .72  | T.   |      |      |      |      | .80  |      |     |     |     |     |      | .12  |        | 7.23  |
| Bowman            |               | 1.78 | .24  |      |     |      |      |      |      |      |     |      |      |      |      | .79  |      | .74  |      |      | .42  |      | .12  |      |      |     |     |     |     |      |      | .10    | 3.29  |
| Calhoun Falls     |               | .26  |      |      |     |      |      | .26  | .20  | T.   | T.  | .07  |      |      | T.   | .13  | .52  | .99  | 1.26 | T.   | .07  | T.   | .35  | .41  | .10  |     |     |     |     |      |      |        | 5.74  |
| Camden (1)        |               | .02  | 1.36 |      |     | T.   |      |      | .04  | .86  |     |      |      |      | .44  | .66  | .14  | .80  |      | .94  | .70  |      | .21  |      |      |     |     |     |     |      |      |        | 7.91  |
| Camden (2)        | 1.42          |      | .18  | 1.52 |     |      |      | .18  |      | .64  |     |      |      |      |      |      |      |      | .36  |      |      |      |      |      |      |     |     |     |     |      |      |        | 3.06  |
| Catawba           |               |      |      |      | T.  |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |      |      |        | 4.04  |
| Chappells         |               |      |      |      |     |      |      |      | .30  | T.   |     |      |      |      | .38  | .32  | .38  | 1.90 |      | .46  |      |      |      |      |      |     |     |     |     |      |      |        | 5.04  |
| Charleston        | .02           | T.   | .10  |      | T.  |      | 1.27 | .07  | 1.29 | T.   | T.  | T.   | .12  | .55  | .03  | 1.00 | .18  | .04  | T.   |      | .02  | T.   | .35  | .58  | .01  |     |     |     |     |      |      |        | 1.84  |
| Charlotte, N. C.  |               | .04  |      |      |     | .02  | .01  |      | .52  |      |     |      |      |      |      | T.   | .28  | T.   | T.   | .01  |      |      | .05  | .58  | .01  |     |     |     | .15 |      |      |        | 5.13  |
| Cheraw (1)        | .61           |      | .73  | .13  |     | T.   | 1.67 | T.   |      | .24  |     |      |      |      |      |      |      |      | T.   | .50  | T.   | .50  |      | .74  |      |     |     |     |     | .01  |      |        | 5.11  |
| Cheraw (2)        |               | .53  |      | .66  | .13 |      | T.   | 1.42 | T.   |      | .23 |      |      |      |      |      |      |      | .65  |      |      |      | .01  | .88  |      |     |     |     |     |      |      |        | 2.45  |
| Clark's Hill      |               | T.   | T.   |      |     |      |      |      |      |      |     |      |      | .25  | .24  | .48  |      |      | 1.00 | T.   |      | T.   | .20  |      |      |     |     | .28 |     |      |      |        | 4.74  |
| Clemson College   |               |      |      |      | .04 |      | .18  |      | .71  |      |     |      |      | .73  |      |      | 2.00 |      |      | .89  |      |      |      | .19  |      |     |     |     |     |      |      |        | 4.67  |
| Columbia          |               | T.   | .05  | .01  |     | .10  |      |      | .66  | .14  |     | T.   |      | .11  | .12  | .06  | .42  | 1.51 |      |      |      | 1.49 | T.   |      |      |     |     |     |     |      |      |        | 8.67  |
| Conway            | .80           | .30  | .93  | .10  |     | .20  |      | 2.20 | .05  | .67  |     |      |      |      |      | T.   |      |      | .25  | .50  | 1.10 | .14  |      | .80  | .50  | .13 |     |     |     |      |      |        | 3.51  |
| Darlington        | .08           | .47  | .02  | .08  |     | .03  | .53  | .03  | .02  | .10  |     | .04  | .01  |      |      |      | .30  | .90  | .32  | .18  |      |      | .05  | .07  |      |     |     |     |     | .17  |      |        | 4.31  |
| Dillon            | .22           | .82  |      |      |     | .02  |      |      | .16  |      |     |      |      |      |      |      | 1.62 | .22  | .70  |      |      |      |      | .53  | .02  | T.  |     |     |     |      |      |        | 3.06  |
| Due West          |               |      | T.   |      |     | .26  |      |      | .64  |      |     |      |      |      | 1.20 | .43  |      | .27  |      |      |      | .26  |      |      |      |     |     |     |     |      |      |        | 6.75  |
| Edisto            |               | .44  |      |      |     |      |      |      | 1.38 |      |     |      |      |      |      | .90  | 1.08 | .21  | 1.21 |      |      |      | 1.53 |      |      |     |     |     |     |      |      |        | 11.40 |
| Effingham         | .40           |      | 2.50 | .90  |     |      |      |      |      |      | .50 |      |      |      |      | .75  |      | .10  | .30  | .40  | .30  |      | .10  | 2.00 |      | .25 |     |     |     |      |      |        | 2.06  |
| Florence          |               | .11  | .10  |      |     |      | .08  |      |      |      |     |      |      |      |      |      | .17  | .83  | .15  | .10  |      |      | .17  | .15  |      |     |     |     |     |      |      |        | 6.51  |
| Georgetown        | .40           | .41  | .10  |      |     | .30  | T.   | T.   | T.   | 1.10 | T.  | T.   | 1.67 | T.   |      | .30  | .10  | .15  | .20  | .40  | .28  | .82  | T.   | .28  |      | T.  | T.  | T.  |     |      |      |        | 5.05  |
| Greenville        |               |      |      |      |     | .54  |      |      | .27  |      | .75 |      |      |      | .25  | .04  | 1.90 |      | .35  | .20  | .15  |      |      | .50  |      |     |     |     |     |      |      |        | 3.71  |
| Greenwood         |               | .03  | .25  |      |     |      |      |      | .12  |      |     |      |      |      |      | .18  | 1.20 | .90  |      |      |      | .80  |      | .18  |      |     |     |     | .05 |      |      |        | 5.70  |
| Heath Spring      |               | 1.03 | .57  | .01  |     |      |      |      | .28  |      | .02 | .92  |      |      |      | .93  | .31  | .05  |      |      |      | .18  | .98  | .02  | .40  |     |     |     |     |      |      |        | 8.23  |
| Kingstree (1)     |               | .71  | .50  |      |     |      |      |      | T.   | .46  |     |      |      |      | .27  | T.   | .70  | 2.00 | .60  | .07  | .03  |      | .24  | .55  | 1.20 |     |     |     |     |      | .90  |        | 10.22 |
| Kingstree (2)     |               | .15  | .20  |      |     |      |      |      | .55  | .40  |     |      |      |      | .20  | .98  | 2.20 | 1.60 |      |      |      | 1.60 | .59  | 1.00 |      |     |     |     |     |      |      |        | 4.35  |
| Liberty           |               |      |      |      | T.  |      | T.   | .05  | T.   | .10  | T.  | .40  | .25  | 1.40 |      | .42  | .58  | .10  |      |      | T.   |      | .60  |      |      |     |     |     |     | T.   |      |        | 2.99  |
| Little Mountain   |               | .71  |      |      |     |      |      | .74  | .03  | .03  |     |      |      | .12  | .71  | .05  | .02  |      |      |      | .06  | .10  | .42  |      |      |     |     |     |     |      |      |        | 5.24  |
| Newberry          |               | .04  | .25  |      |     |      |      | .18  |      | .06  | .72 |      |      |      | 2.71 | .03  | .06  | .14  |      |      | .65  |      | .33  |      |      |     |     | T.  | .07 |      |      |        | 2.70  |
| Pelzer            |               |      | T.   |      |     |      |      | 1.01 |      |      | .20 | T.   |      |      | .10  | .96  |      | .24  | .10  |      |      |      | .09  |      |      |     |     |     |     |      |      |        |       |
| Pinopolis         |               |      |      |      |     |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |      |      |        |       |
| St. George        |               |      | 1.55 | .60  |     |      |      | .30  | 1.90 | .15  |     |      |      |      | .05  |      |      | .45  | .45  |      |      |      |      | .07  |      |     |     |     |     |      |      |        | 5.52  |
| St. Matthews      |               |      |      |      |     |      |      |      | .29  |      |     |      |      |      | .70  | .05  |      | 1.72 | .15  | .05  |      |      | .07  |      |      |     |     |     |     |      |      |        | 3.03  |
| St. Stephens      | .52           |      | .40  | 1.07 |     |      |      |      | .12  | .13  |     |      |      |      | 1.42 |      | .32  | 1.10 | 1.85 | 1.52 |      |      | 1.44 | .09  | .04  |     |     |     |     |      |      |        | 10.02 |
| Saluda            |               | .04  |      |      |     |      |      | 2.25 | .02  | T.   |     |      |      |      | .01  | .32  |      | 1.31 | T.   |      |      |      | .06  |      |      |     |     |     |     |      |      |        | 4.02  |
| Santuc            |               | T.   |      |      |     | T.   | .18  |      | .83  | T.   | T.  |      |      | 1.20 | .60  | .20  | .03  | .01  |      |      | T.   | T.   | T.   | .09  |      |     |     |     |     |      |      |        | 3.43  |
| Savannah, Ga.     | .03           | .01  | .17  | .37  | .01 |      |      | .53  |      | .01  |     |      | .78  | .06  |      | .21  | .30  | 1.40 | 3.04 | .41  |      |      | .09  | .04  |      | T.  |     |     |     |      |      | .03    | 4.19  |
| Smith Mills       |               | .15  | .07  |      |     | 3.65 | .06  |      | .74  |      | .10 |      |      | .05  | T.   | .02  | .90  |      | .75  | .15  | .19  |      | .18  | .20  | .23  | .40 |     |     |     |      |      |        | 6.60  |
| Society Hill      |               |      |      |      |     | .08  |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |      |      |        | 4.09  |
| Spartanburg       |               |      | .13  |      |     |      |      | .21  | .80  | .02  |     |      |      | .10  | 1.80 | .79  | 1.62 | .44  |      |      | .05  | 1.30 | .12  | .02  |      |     |     |     |     |      |      |        | 7.40  |
| Stateburg         |               | T.   | .04  | .17  |     | T.   |      | .26  | .43  | .34  | .50 | .45  | .33  | .13  | .20  | .23  | .60  | 1.56 | .67  | .03  |      |      | .79  |      |      |     | .34 | .16 |     |      |      |        | 7.35  |
| Summerville       | .04           | T.   |      |      |     |      |      | .66  |      | .34  | .18 |      |      | .32  | .82  |      |      | .23  |      |      | T.   |      | .81  | .43  |      |     |     |     |     |      |      |        | 3.45  |
| Trenton           |               | .03  | .29  | 1.35 |     |      |      |      | .20  |      |     | .22  | T.   | 1.28 | .75  | .44  | .54  | 1.74 | .49  |      |      | .56  | .45  |      |      |     |     |     |     |      |      |        | 8.93  |
| Trial             |               |      |      |      |     |      |      |      |      |      |     |      |      |      |      | 1.40 | .71  | .42  | .17  |      |      | .37  | T.   |      | .63  |     |     |     |     |      |      |        | 4.07  |
| Walhalla          |               |      |      |      |     | .17  |      |      |      |      |     |      |      |      |      | .09  | .07  | .40  | 1.21 | .51  | .05  | .05  |      | .74  | T.   |     | .12 | .01 |     |      |      |        | 6.18  |
| Walterboro        |               | .72  | .73  |      |     |      |      | .03  | .48  | .05  |     | .54  | .31  | .07  |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |      |      |        | 10.17 |
| Wilmington, N. C. |               | T.   | 2.17 |      |     | .06  |      |      |      | 2.71 | .04 | .02  | .19  | 1.37 |      | .50  |      | 1.00 | .50  | .25  |      | 1.75 | .25  | .17  |      |     |     |     |     | 1.51 |      |        | 4.62  |
| Winnsboro         |               | T.   |      |      |     |      |      | .20  |      |      |     |      |      |      | .02  |      | .28  | .02  |      |      |      | T.   | .63  | 1.83 |      |     |     |     |     |      |      |        | 4.32  |
| Winthrop College  |               |      | .06  |      |     |      | .63  |      | .32  | .43  |     |      |      | .10  | .23  | .64  | .26  | .65  | .14  | 1.60 | .47  |      |      |      |      |     |     |     |     |      |      |        | 5.02  |
| Yemassee          | .02           |      |      | .27  |     | T.   |      | .05  |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |      |      |        |       |
| Yorkville         |               |      | T.   |      |     | T.   |      |      | .35  | 1.02 |     |      |      |      | .11  | T.   | .05  | .95  | .08  | .12  |      | .23  | .54  | .17  | 1.38 |     |     |     |     |      | 1.13 |        | 7.13  |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR SEPTEMBER, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

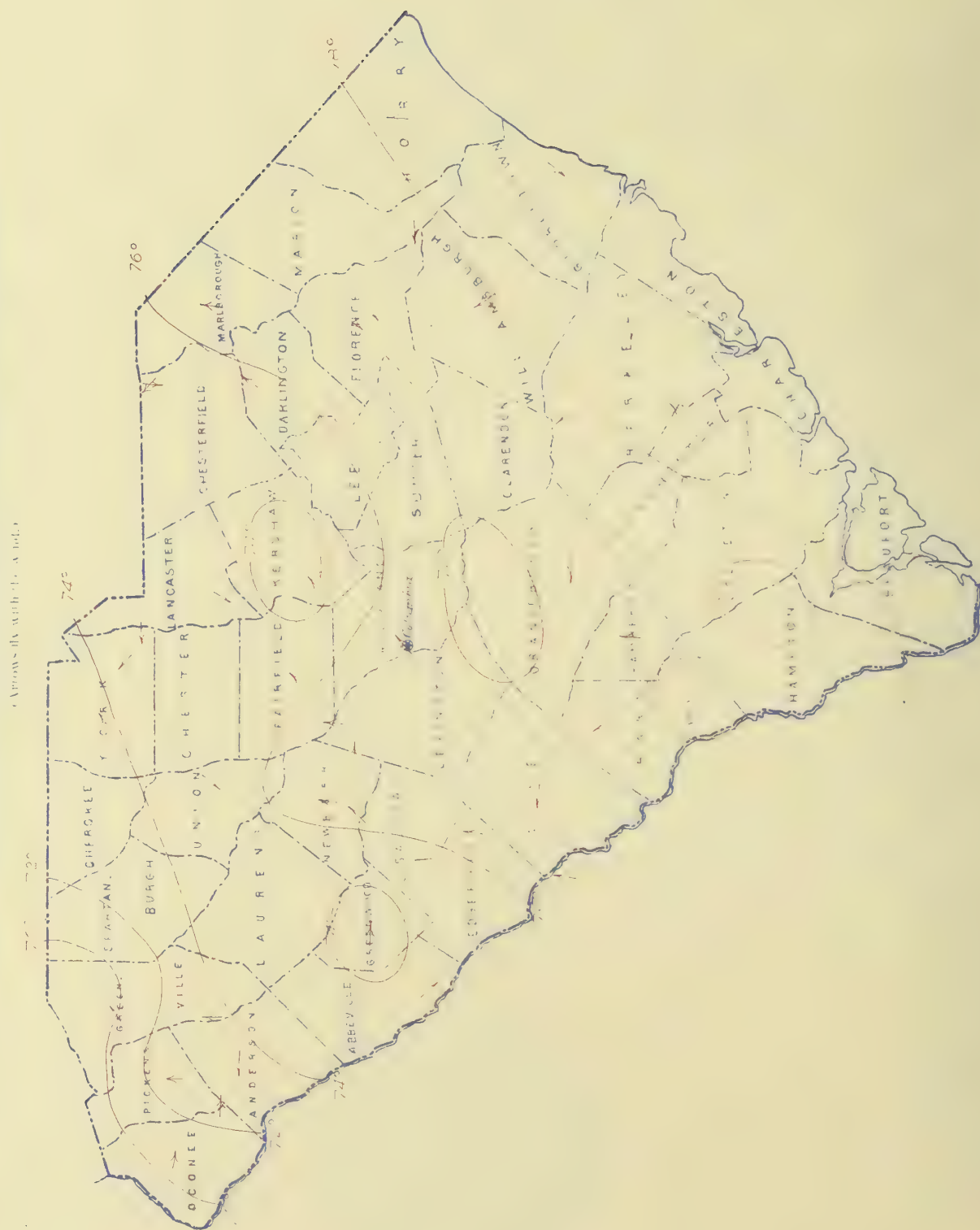
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

OCTOBER 26, 1907.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR SEPTEMBER, 1907.





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.  
  
SOUTH CAROLINA SECTION,  
J. W. BAUER, Section Director.

VOL. X. COLUMBIA, S. C., SEPTEMBER, 1907. No. 9.

GENERAL SUMMARY.

The weather was warm and seasonable thruout the month with the exception of a short cool period near the close of the month when the temperature was much below normal for one day only. Maximum temperatures of 90°, or above, occurred in all parts of the State save in the extreme north-western portion, but rarely after the middle of the month in the central and western portions. The dates of occurrence of the highest temperatures were confined to the first three days except at a few stations mostly in the eastern portion where the 8th and 9th were the warmest days. Minimum temperatures were neither unusually high nor low.

The precipitation was below the average in small areas located in the western and middle Savannah Valley counties, and along the southern portion of the immediate coast; and was above the average over the rest of the State. The areas of heaviest precipitation included the southeastern counties except along the coast, and the extreme eastern counties. The precipitation was well distributed thruout the month.

Thunderstorms were unusually numerous especially during the first half of the month.

The sunshine was generally deficient from the 10th to the 20th, and was slightly above the normal during the first and the last decades.

TEMPERATURE.

The mean temperature was 76.0°, which is 1.8° above the normal. The highest local mean was 79.4° at Charleston, the lowest was 69.7° at Greenville. The monthly extremes of temperature were 99° at Saluda on the 3d, and 45° at Walhalla on the 26th, making the State range 54°. The greatest local monthly range was 50° at Walhalla, the least was 26° at Charleston. The mean of the daily maximum temperatures was 85.8°, and of the daily minimum temperatures was 66.2°, making the average daily range 19.6°.

PRECIPITATION.

The average precipitation was 5.91 inches, which is 1.86 inch above the normal. The greatest local monthly amount was 10.02 inches at Blackville, the least was 2.73 inches at Charleston. The greatest 24-hour fall was 7.00 inches at Pinopolis on the 28th. The average number of days with rain was 9, ranging from 3 days at Clemson College and Georgetown to 15 days at Summerville.

EXCESSIVE PRECIPITATION.—At Blackville on the 4th, 1.40 inch in 40 minutes, and on the 28th-29th, 3.15 inches in 17 hours; at Bowman on the 29th, 3.78 inches in about

12 hours; at Catawba on the 22d, 3.02 inches in 6 hours; at Conway on the 29th, 3.80 inches in 24 hours; at Florence on the 29th, 2.66 inches in about 16 hours; at Greenville on the 23d, 3.02 inches in about 15 hours; at Liberty on the 23d, 2.60 inches in 24 hours; at Pelzer on the 23d, 2.90 inches in 13 hours and 15 minutes; at Pinopolis on the 28th-29th, 7.00 inches in 24 hours; at St. George on the 29th, 4.35 inches in 24 hours; at St. Matthews on the 29th, 3.20 inches in 13 hours; at Smiths Mills on the 29th, 5.20 inches in 17 hours; at Santuc on the 29th, 2.51 inches in 24 hours; at Trial on the 28th, 3.70 inches in about 15 hours; at Walterboro on the 29th, 3.25 inches in 24 hours; at Yemassee on the 29th, 4.75 inches in about 17 hours; at Yorkville on the 23d, 2.52 inches in 24 hours.

WIND.

The prevailing direction of the wind was from the south at 12 stations, from the southwest at 11 stations, from the east at 7 stations, from the northeast and southeast at 5 stations each, from the west at 4 stations, and from the north and the northwest at 1 station each.

HIGH WINDS.—At Beaufort and Summerville on the 23d; at Camden on the 4th, 23d; at Charleston on the 29th; at Columbia on the 9th; at Trial on the 3d, 23d, 28th.

SUNSHINE AND CLOUDINESS.

The average number of clear days was 13, of partly cloudy days was 11, and of cloudy days was 6.

MISCELLANEOUS PHENOMENA.

METEOR.—At Santuc on the 6th.  
SOLAR HALOS.—At Charleston on the 25th; Santuc on the 26th.

LUNAR HALOS.—At Liberty on the 26th; Santuc on the 7th, 26th.

DENSE FOGS.—At Bennettsville, Bowman on the 20th, 21st; at Camden on the 10th, 19th, 20th; at Clarks Hill on the 24th; at Columbia on the 6th, 19th, 20th; at Heath Spring, Winthrop College on the 20th; at Liberty on the 22d, 29th; at Newberry on the 2d, 4th, 12th, 19th, 20th; at Santuc on the 2d; at Trial on the 5th.

THUNDERSTORMS.—Thunderstorms occurred on 24 days. There were four periods of maximum frequency, namely, 1st-5th, 8th-14th, 19th-23d, and 25th-29th, when from 3 to 12 of the 15 cooperative stations that recorded thunderstorms reported their occurrence. They were comparatively infrequent on the 2d, 6th, 7th, 9th, 19th, 20th, 21st, 25th, 26th, 27th, and 29th, when only one or two stations reported their occurrence. None were reported on the 15th-18th, 24th, or 30th.

BAROMETER AND WIND TABLE FOR SEPTEMBER, 1907.

| STATIONS.             | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-----------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....     | 30.03      | 30.30    | 15    | 29.73   | 23    | 3.908           | 5.4             | 34                | W.         | 3     |
| Charleston, .....     | 30.03      | 30.30    | 15    | 29.71   | 29    | 7.571           | 10.5            | 36                | S.         | 29    |
| Charlotte, N. C. .... | 30.05      | 30.39    | 15    | 29.61   | 23    | 4.152           | 5.5             | 30                | SW.        | 23    |
| Columbia, .....       | 30.04      | 30.36    | 15    | 29.72   | 23    | 4.397           | 6.1             | 26                | SW.        | 9     |
| Savannah, Ga. ....    | 30.04      | 30.27    | 15    | 29.79   | 29    | 4.887           | 6.8             | 24                | W.         | 29    |
| Wilmington, N. C. ... | 30.04      | 30.34    | 15    | 29.70   | 29    | 5.192           | 7.2             | 32                | SW.        | 23    |
| Averages .....        | 30.04      | 30.39    | 15    | 29.64   | 23    | 5.016           | 7.0             | 36                | S.         | 29    |



## RIVER GAGE READINGS, SEPTEMBER, 1907.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 1.1   | 7.5      | 24    | 0.1     | 6     |
| Calhoun Falls    | 3.1   | 5.0      | 23    | 2.5     | *2    |
| Canden           | 6.7   | 21.4     | 25    | 3.5     | 22    |
| Catawba          | 2.5   | 7.5      | 25    | 1.6     | 19    |
| Chappells        | 3.0   | 8.5      | 24    | 1.4     | 21    |
| Cheraw           | 3.3   | 15.5     | 25    | 1.4     | *22   |
| Columbia         | 1.2   | 4.7      | 25    | 0.0     | 22    |
| Edisto           | 1.9   | 3.7      | 30    | 1.0     | *10   |
| Effingham        | 4.1   | 5.2      | 17    | 3.3     | *24   |
| Kingstree        | 2.2   | 9.0      | 1     | 2.5     | *13   |
| Mt. Holly, N. C. | 5.2   | 7.0      | 24    | 1.8     | *1    |
| Pelzer           | 2.6   | 4.6      | 24    | 1.8     | *6    |
| Rhine            | 6.1   | 12.2     | *27   | 3.1     | 23    |
| Smith Mills      | 3.4   | 9.9      | 30    | 1.6     | 14    |

\* On other dates also.

## REMARKS BY OBSERVERS.

BEAUFORT.—The temperature was above the normal and the precipitation was below normal. The precipitation was well distributed but the rains were light until the 28th when 1.62 inch fell in three hours.—S. M. Benton. BOWMAN.—The total rainfall was unusually large; highways were badly washed and the heavy rains did considerable damage otherwise. The number of thunderstorms was exceptionally large.—B. O. Evans. CAMDEN.—The weather was unfavorable owing to the exceptionally large rainfall which was nearly twice the average amount.—J. B. Mickle. GREENVILLE.—There were thunderstorms on the 4th and 8th with very vivid lightning.—Mrs. S. A. Crittenden. LIBERTY.—The weather was unfavorable. The precipitation was well distributed but was in excess of the soil requirements.—John T. Boggs. NEWBERRY.—There was a severe thunderstorm on the night of the 7th.—W. G. Peterson. SANTUC.—The month was a rainy one, with excessive precipitation at times. There were frequent high winds accompanying thunderstorms that attained almost tornadic force.—E. W. Jeter. TRENTON.—The precipitation was excessive, and the total is now 9.60 inches less than the average for the first 9 months of the year.—C. A. Long.

## ERRATA.

In the August number of the Monthly Report the following corrections should be made: On page 61, the highest temperature and date at Winthrop College 93° on the 31st, should be 96° on the 9th; the total precipitation at Spartanburg 4.09, should be 4.08. On page 64, the precipitation at Spartanburg on the 16th 0.90, should be 0.99, and the total 4.09, should be 4.08.

DATA FOR BEAUFORT, S. C.  
Temperature.

| Year. | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1888. |      |      |      |       |      |      |      | 80   | 76    | 65   | 58   | 49   |       |
| 1889. |      |      |      |       | 74   | 77   | 81   | 78   | 76    | 65   | 59   | 58   |       |
| 1890. | 59   | 60   | 56   | 66    | 74   | 82   | 79   | 80   | 75    | 68   | 62   | 52   |       |
| 1891. | 50   | 59   | 56   | 65    | 71   | 80   | 80   | 82   | 77    | 64   | 56   | 55   | 66    |
| 1892. | 48   | 54   | 56   | 66    | 74   | 81   | 82   | 83   | 75    | 67   | 57   | 53   | 66    |
| 1893. | 43   | 56   | 57   | 69    | 73   | 80   | 84   | 82   | 79    | 69   | 58   | 54   | 67    |
| 1894. | 54   | 53   | 63   | 66    | 74   | 79   | 80   | 82   | 78    | 69   | 57   | 53   | 67    |
| 1895. | 49   | 42   | 57   | 65    | 73   | 81   | 83   | 83   | 79    | 66   | 58   | 51   | 66    |
| 1896. | 49   | 53   | 56   | 68    | 78   | 80   | 84   | 82   | 78    | 67   | 64   | 49   | 69    |
| 1897. | 47   | 55   | 61   | 66    | 73   | 82   | 83   | 82   | 75    | 70   | 62   | 53   | 69    |
| 1898. | 54   | 51   | 63   | 63    | 76   | 82   | 82   | 81   | 78    | 67   | 57   | 50   | 67    |
| 1899. | 50   | 50   | 61   | 64    | 77   | 80   | 82   | 83   | 78    | 70   | 62   | 52   | 67    |
| 1900. | 51   | 50   | 57   | 68    | 73   | 79   | 82   | 84   | 80    | 72   | 62   | 51   | 67    |
| 1901. | 51   | 49   | 57   | 60    | 74   | 79   | 82   | 80   | 78    | 68   | 54   | 49   | 65    |
| 1902. | 49   | 46   | 58   | 64    | 76   | 80   | 83   | 81   | 79    | 70   | 64   | 51   | 67    |
| 1903. | 49   | 54   | 64   | 63    | 71   | 77   | 81   | 82   | 76    | 66   | 57   | 47   | 66    |
| 1904. | 46   | 51   | 61   | 63    | 72   | 78   | 80   | 79   | 76    | 67   | 56   | 52   | 65    |
| 1905. | 47   | 46   | 60   | 66    | 76   | 80   | 81   | 80   | 79    | 69   | 60   | 50   | 66    |
| 1906. | 53   | 51   | 57   | 67    | 72   | 80   | 80   | 81   | 79    | 66   | 59   | 52   | 66    |
| M's   | 50.0 | 51.7 | 58.8 | 65.2  | 73.9 | 79.8 | 81.7 | 81.4 | 77.1  | 67.7 | 59.0 | 51.8 | 66.5  |

## Precipitation.

| Year. | Jan. | Feb. | Mar. | Apr. | May.  | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec.  | Year. |
|-------|------|------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|
| 1886. |      |      |      |      |       |       |       | 5.00  | 0.50  | 2.75 | 0.13 | 1.87  |       |
| 1887. | 3.75 | 2.69 | 0.37 | 3.06 | 2.20  | 4.56  | 3.00  | 3.43  | 1.13  | 2.38 | 0.00 | 8.50  | 35.07 |
| 1888. | 1.50 | 6.13 | 3.00 | 0.37 | 2.25  | 1.06  | 3.88  | 5.00  | 14.43 | 6.37 | 2.50 | 2.12  | 48.55 |
| 1889. | 6.12 | 3.50 | 3.69 | 1.88 | 0.45  | 5.93  | 4.72  | 4.63  | 2.00  | 0.10 | 5.44 | 0.00  | 38.51 |
| 1890. | 0.28 | 0.86 | 2.49 | 2.44 | 2.66  | 2.31  | 9.21  | 1.61  | 13.68 | 3.65 | 0.19 | 2.05  | 41.53 |
| 1891. | 3.01 | 1.92 | 4.32 | 1.61 | 3.47  | 3.23  | 5.74  | 14.00 | 2.98  | 2.73 | 1.61 | 1.67  | 46.32 |
| 1892. | 2.94 | 1.08 | 3.45 | 0.43 | 2.40  | 4.27  | 4.40  | 2.27  | 14.95 | 0.73 | 1.08 | 2.05  | 39.81 |
| 1893. | 2.68 | 3.73 | 3.78 | 1.24 | 3.50  | 8.64  | 4.84  |       | 6.05  | 4.72 | 0.90 | 3.22  |       |
| 1894. | 1.19 | 3.28 | 2.11 | 1.55 | 5.56  | 5.23  | 9.93  | 10.97 | 9.45  | 3.47 | 3.29 | 0.48  | 56.51 |
| 1895. | 4.23 | 3.08 | 3.80 | 3.51 | 1.48  | 3.28  | 6.59  | 6.07  | 5.93  | 1.63 | 2.80 | 1.36  | 43.76 |
| 1896. | 3.74 | 3.55 | 2.79 | 0.40 | 2.61  | 7.38  | 5.46  | 4.46  | 1.16  | 1.45 | 2.75 | 3.16  | 39.91 |
| 1897. | 1.24 | 7.54 | 5.91 | 2.42 | 1.47  | 4.55  | 5.65  | 7.88  | 4.57  | 6.91 | 0.50 | 2.07  | 51.04 |
| 1898. | 0.23 | 0.52 | 2.66 | 3.75 | 1.11  | 2.84  | 9.39  | 24.68 | 2.63  | 6.00 | 5.74 | 2.23  | 61.90 |
| 1899. | 3.93 | 6.15 | 1.51 | 2.62 | 1.47  | 3.62  | 10.51 | 1.48  | 8.32  | 3.28 | 1.36 | 46.37 |       |
| 1900. | 3.06 | 4.03 | 4.53 | 4.54 | 3.62  | 10.65 | 6.45  | 3.33  | 3.77  | 3.33 | 3.48 | 4.66  | 51.90 |
| 1901. | 3.28 | 4.52 | 2.30 | 3.11 | 2.17  | 8.62  | 4.48  | 3.23  | 0.44  | 0.50 | 1.36 | 1.59  | 55.60 |
| 1902. | 0.77 | 4.07 | 4.34 | 1.88 | 4.97  | 2.16  | 7.21  | 5.62  | 7.97  | 7.32 | 4.77 | 4.47  | 55.57 |
| 1903. | 4.82 | 5.48 | 6.31 | 0.85 | 11.97 | 6.89  | 3.45  | 6.57  | 6.26  | 1.98 | 1.63 | 2.05  | 58.27 |
| 1904. | 4.01 | 4.60 | 2.44 | 0.83 | 0.42  | 3.62  | 6.67  | 11.15 | 4.44  | 1.90 | 4.18 | 1.56  | 45.22 |
| 1905. | 1.84 | 4.85 | 3.58 | 2.60 | 4.21  | 2.32  | 10.65 | 2.30  | 2.60  | 2.12 | 1.34 | 5.77  | 44.18 |
| 1906. | 5.70 | 2.39 | 3.37 | 1.43 | 3.11  | 7.70  | 8.50  | 7.24  | 2.53  | 5.84 | 0.42 | 2.16  | 52.39 |
| M's   | 2.92 | 3.71 | 3.32 | 2.03 | 3.06  | 4.94  | 6.12  | 7.01  | 5.29  | 3.46 | 2.26 | 2.52  | 46.64 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 59                    | 1890  | 43                   | 1893  | 5.70              | 1906  | 0.23           | 1898  |
| February  | 60                    | 1890  | 42                   | 1895  | 7.54              | 1897  | 0.52           | 1898  |
| March     | 64                    | 1903  | 56                   | 1890  | 6.31              | 1903  | 0.37           | 1887  |
| April     | 69                    | 1893  | 60                   | 1901  | 4.54              | 1900  | 0.37           | 1888  |
| May       | 72                    | 1896  | 71                   | 1891  | 11.97             | 1903  | 0.42           | 1904  |
| June      | 82                    | 1890  | 77                   | 1889  | 10.65             | 1900  | 1.06           | 1888  |
| July      | 84                    | 1893  | 79                   | 1890  | 10.65             | 1905  | 2.12           | 1899  |
| August    | 84                    | 1900  | 78                   | 1889  | 24.68             | 1898  | 1.61           | 1890  |
| September | 80                    | 1900  | 75                   | 1890  | 14.95             | 1892  | 0.44           | 1901  |
| October   | 72                    | 1900  | 64                   | 1891  | 8.32              | 1894  | 0.10           | 1889  |
| November  | 61                    | 1896  | 54                   | 1901  | 5.74              | 1895  | 0.00           | 1887  |
| December  | 58                    | 1889  | 47                   | 1903  | 8.50              | 1887  | 0.00           | 1889  |

\* And other years.

## COMPARATIVE SEPTEMBER DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |               |                |                       | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|---------------|----------------|-----------------------|--------------------------|----------------------------------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |               | Least Monthly. |                       |                          |                                  |
|           |              |                  |                  |          |          |                | Amount.           | Place.        | Amount.        | Place.                |                          |                                  |
| 1894..... | 75.0         | 83.0             | 67.2             | 100      | 52       | 6.51           | 10.94             | Charleston.   | 2.34           | Central.              | 12                       | no.                              |
| 1895..... | 76.9         | 85.9             | 67.2             | 106      | 35       | 1.29           | 6.94              | Charleston.   | 0.00           | Central and 2 others. | 4                        | no.                              |
| 1896..... | 75.0         | 86.2             | 63.9             | 105      | 39       | 2.94           | 8.06              | Central.      | 0.50           | Shaw's Fork.          | 5                        | no.                              |
| 1897..... | 73.3         | 84.2             | 62.4             | 100      | 42       | 2.91           | 5.52              | St. Matthews. | 0.80           | Walhalla.             | 4                        | no.                              |
| 1898..... | 76.0         | 84.1             | 67.9             | 96       | 48       | 4.06           | 10.32             | Mt. Carmel.   | 0.50           | Batesburg.            | 7                        | no.                              |
| 1899..... | 72.8         | 83.3             | 62.3             | 102      | 34       | 2.55           | 5.25              | Smiths Mills. | 0.55           | Anderson.             | 6                        | no.                              |
| 1900..... | 77.1         | 88.0             | 66.2             | 100      | 45       | 2.83           | 6.51              | Trials.       | 1.08           | Temperance.           | 5                        | no.                              |
| 1901..... | 73.1         | 82.5             | 63.7             | 98       | 46       | 4.66           | 8.40              | Cheraw.       | 0.30           | Bowman.               | 6                        | no.                              |
| 1902..... | 72.1         | 82.1             | 62.1             | 98       | 43       | 3.74           | 7.97              | Beaufort.     | 1.10           | Bowman.               | 8                        | no.                              |
| 1903..... | 72.7         | 82.9             | 62.5             | 100      | 41       | 3.62           | 9.43              | Yemassee.     | 0.60           | Due West.             | 5                        | no.                              |
| 1904..... | 75.8         | 85.8             | 65.8             | 101      | 44       | 2.46           | 9.50              | Smiths Mills. | T.             | Little Mountain.      | 4                        | no.                              |
| 1905..... | 76.2         | 86.8             | 65.6             | 98       | 49       | 1.91           | 8.60              | Darlington.   | T.             | Due West.             | 4                        | no.                              |
| 1906..... | 77.1         | 85.9             | 68.3             | 98       | 55       | 4.85           | 14.37             | Walhalla.     | 1.43           | Edisto.               | 9                        | no.                              |
| 1907..... | 76.0         | 85.8             | 66.2             | 99       | 45       | 5.91           | 10.02             | Pinopolis.    | 2.73           | Charleston.           | 9                        | s.                               |



CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1907.

| STATIONS.                              | Counties.     | Elevation—feet. | Length of record—years. | Temperature—degrees Fahrenheit. |                            |          |       |         |       |                      | Precipitation—inches. |                            |                       |                      |                    | Sky.               |                            |                       |                      |                        | Observers. |
|--|---------------|-----------------|-------------------------|---------------------------------|----------------------------|----------|-------|---------|-------|----------------------|-----------------------|----------------------------|-----------------------|----------------------|--------------------|--------------------|----------------------------|-----------------------|----------------------|------------------------|------------|
|  |               |                 |                         | Mean.                           | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily fall. | Total.                | Departure from the normal. | Greatest in 24 hours. | Total snow—(inches). | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. |                      |                        |            |
| Aiken.                                 | Aiken.        | 565             | 23                      | 77.0                            | +3.0                       | 94       | 1     | 50      | 7     | 33                   | 3.42                  | +1.32                      | 1.70                  | 0                    | 6                  | 17                 | 13                         | 0                     | C. F. McGahan, M. D. |                        |            |
| Allendale.                             | Barnwell.     | 186             | 19                      | 78.1                            | +3.1                       | 96       | 3     | 60      | 24    | 24                   | 9.18                  | +4.92                      | 6.00                  | 0                    | 8                  | 18                 | 6                          | 12                    | A. R. Hiers.         |                        |            |
| Anderson.                              | Anderson.     | 704             | 6                       | 74.6                            | +2.7                       | 94       | 3     | 54      | 26    | 29                   | 4.48                  | +1.11                      | 1.11                  | 0                    | 8                  | 19                 | 2                          | 9                     | H. H. Russell.       |                        |            |
| Augusta, Ga.                           | Richmond.     | 131             | 36                      | 77.1                            | +2.7                       | 94       | 3     | 64      | 26    | 25                   | 3.88                  | +0.17                      | 1.54                  | 0                    | 13                 | 12                 | 14                         | 4                     | Weather Bureau.      |                        |            |
| Barksdale.                             | Laurens.      | 686             | 6                       | 77.1                            | +2.7                       | 94       | 3     | 64      | 26    | 25                   | 3.88                  | +0.17                      | 1.54                  | 0                    | 13                 | 12                 | 14                         | 4                     | J. T. Garrett.       |                        |            |
| Batesburg.                             | Lexington.    | 656             | 19                      | 74.4                            | +0.4                       | 92       | 1     | 55      | 26    | 25                   | 4.10                  | -0.16                      | 1.60                  | 6                    | 9                  | 14                 | 5                          | 11                    | E. J. Hibe.          |                        |            |
| Beaufort.                              | Beaufort.     | 20              | 21                      | 78.9                            | +1.7                       | 93       | 1     | 62      | 27    | 24                   | 3.61                  | -1.73                      | 1.64                  | 0                    | 11                 | 12                 | 11                         | 4                     | S. M. Benton.        |                        |            |
| Beaufortville.                         | Marlboro.     | 151             | 6                       | 77.0                            | +2.0                       | 97       | 3     | 57      | 26    | 32                   | 4.41                  | 2.45                       | 0                     | 8                    | 16                 | 10                 | 4                          | 0                     | C. S. McCall.        |                        |            |
| Blackville.                            | Barnwell.     | 290             | 19                      | 76.6                            | +1.4                       | 98       | 3     | 60      | 26    | 28                   | 10.02                 | +6.04                      | 3.15                  | 0                    | 11                 | 11                 | 12                         | 0                     | Miss M. E. Latzen.   |                        |            |
| Blair.                                 | Fairfield.    | 293             | 2                       | 77.0                            | +2.0                       | 97       | 3     | 57      | 26    | 32                   | 4.41                  | 2.45                       | 0                     | 8                    | 16                 | 10                 | 4                          | 0                     | T. S. McMeekin.      |                        |            |
| Bowman.                                | Orangeburg.   | 160             | 6                       | 77.3                            | +2.3                       | 98       | 3     | 57      | 26    | 32                   | 9.86                  | 3.78                       | 0                     | 14                   | 13                 | 13                 | 4                          | 0                     | B. O. Evans.         |                        |            |
| Calhoun Falls.                         | Abbeville.    | 508             | 14                      | 77.3                            | +2.3                       | 98       | 3     | 57      | 26    | 32                   | 9.86                  | 3.78                       | 0                     | 14                   | 13                 | 13                 | 4                          | 0                     | P. J. Pichler.       |                        |            |
| Camden (1).                            | Kershaw.      | 2               | 2                       | 74.1                            | +1.1                       | 94       | 3     | 53      | 26    | 28                   | 6.98                  | 2.11                       | 0                     | 10                   | 18                 | 6                  | 6                          | 0                     | J. B. Mickle.        |                        |            |
| Camden (2).                            | Kershaw.      | 222             | 41                      | 74.1                            | +1.1                       | 94       | 3     | 53      | 26    | 28                   | 6.98                  | 2.11                       | 0                     | 10                   | 18                 | 8                  | 4                          | 0                     | W. C. Brown.         |                        |            |
| Catawba.                               | York.         | 2               | 2                       | 74.1                            | +1.1                       | 94       | 3     | 53      | 26    | 28                   | 6.98                  | 2.11                       | 0                     | 10                   | 18                 | 8                  | 4                          | 0                     | James Y. Brice.      |                        |            |
| Chapin.                                | Newberry.     | 402             | 2                       | 74.1                            | +1.1                       | 94       | 3     | 53      | 26    | 28                   | 6.98                  | 2.11                       | 0                     | 10                   | 18                 | 8                  | 4                          | 0                     | W. R. Zimmerman.     |                        |            |
| Charleston.                            | Charleston.   | 48              | 38                      | 79.4                            | +3.2                       | 90       | 8     | 64      | 27    | 17                   | 2.73                  | -2.73                      | 0.70                  | 0                    | 11                 | 8                  | 16                         | 6                     | 0                    | Weather Bureau.        |            |
| Charlotte, N. C.                       | Mecklenburg.  | 808             | 29                      | 73.6                            | +2.9                       | 90       | 3     | 53      | 20    | 24                   | 3.76                  | +0.51                      | 1.93                  | 0                    | 10                 | 9                  | 13                         | 8                     | 0                    | W. R. Godfrey.         |            |
| Cheraw (1).                            | Chesterfield. | 144             | 19                      | 74.6                            | +1.0                       | 91       | 9     | 55      | 26    | 28                   | 5.81                  | +2.01                      | 2.09                  | 0                    | 9                  | 10                 | 13                         | 13                    | 0                    | Jno. H. Powe.          |            |
| Cheraw (2).                            | Chesterfield. | 144             | 14                      | 74.6                            | +1.0                       | 91       | 9     | 55      | 26    | 28                   | 5.81                  | +2.01                      | 2.09                  | 0                    | 9                  | 10                 | 13                         | 13                    | 0                    | Wm. S. Middleton.      |            |
| Clark Hill.                            | Edgefield.    | 500             | 5                       | 75.2                            | +0.2                       | 98       | 1     | 56      | 26    | 30                   | 6.88                  | 2.12                       | 0                     | 10                   | 5                  | 7                  | 18                         | 0                     | Jno. N. Hook.        |                        |            |
| Clemson College.                       | Oconee.       | 850             | 16                      | 72.8                            | -0.5                       | 88       | 2     | 55      | 26    | 25                   | 3.26                  | -0.67                      | 2.00                  | 0                    | 3                  | 22                 | 1                          | 7                     | 0                    | Central Office.        |            |
| Columbia.                              | Richland.     | 351             | 29                      | 76.4                            | +2.7                       | 94       | 3     | 59      | 30    | 26                   | 5.72                  | +2.27                      | 1.94                  | 0                    | 11                 | 10                 | 11                         | 0                     | P. C. Quattlebaum.   |                        |            |
| Conway.                                | Horry.        | 25              | 15                      | 78.2                            | +2.2                       | 95       | 9     | 59      | 30    | 25                   | 8.55                  | +4.93                      | 3.80                  | 0                    | 10                 | 13                 | 1                          | 16                    | 0                    | D. C. McCall.          |            |
| Darlington.                            | Darlington.   | 175             | 12                      | 76.7                            | +1.7                       | 97       | 3     | 56      | 30    | 30                   | 4.42                  | +1.05                      | 1.50                  | 0                    | 9                  | 18                 | 8                          | 4                     | 0                    | A. E. Rowell.          |            |
| Dillon.                                | Marion.       | 100             | 3                       | 77.6                            | +2.6                       | 96       | 3     | 56      | 29    | 34                   | 4.11                  | 1.95                       | 0                     | 7                    | 10                 | 13                 | 11                         | 0                     | Rev. O. Y. Bonner.   |                        |            |
| Due West.                              | Abbeville.    | 730             | 6                       | 77.6                            | +2.6                       | 96       | 3     | 56      | 29    | 34                   | 4.11                  | 1.95                       | 0                     | 7                    | 10                 | 13                 | 11                         | 0                     | Mrs. M. Thompson.    |                        |            |
| Edisto.                                | Bamberg.      | 127             | 14                      | 77.6                            | +2.6                       | 96       | 3     | 56      | 29    | 34                   | 4.11                  | 1.95                       | 0                     | 7                    | 10                 | 13                 | 11                         | 0                     | H. B. McCall.        |                        |            |
| Ellington.                             | Florence.     | 106             | 15                      | 77.6                            | +2.6                       | 96       | 3     | 56      | 29    | 34                   | 4.11                  | 1.95                       | 0                     | 7                    | 10                 | 13                 | 11                         | 0                     | H. K. Gilbert.       |                        |            |
| Florence.                              | Florence.     | 136             | 19                      | 77.7                            | +2.7                       | 97       | 3     | 57      | 30    | 30                   | 4.86                  | +1.18                      | 2.66                  | 0                    | 5                  | 15                 | 2                          | 13                    | 0                    | Wm. Alden James.       |            |
| Georgetown.                            | Georgetown.   | 12              | 14                      | 79.1                            | +3.3                       | 92       | 1     | 64      | 25    | 26                   | 5.04                  | +2.00                      | 2.50                  | 0                    | 3                  | 19                 | 1                          | 10                    | 0                    | Mrs. S. A. Crittenden. |            |
| Greenville.                            | Greenville.   | 989             | 15                      | 69.7                            | -1.9                       | 88       | 2     | 48      | 26    | 31                   | 6.31                  | +2.24                      | 3.02                  | 0                    | 8                  | 19                 | 1                          | 10                    | 0                    | M. M. Calhoun.         |            |
| Greenwood.                             | Greenwood.    | 671             | 19                      | 73.8                            | +0.3                       | 94       | 3     | 56      | 26    | 25                   | 5.43                  | +0.87                      | 2.10                  | 0                    | 8                  | 15                 | 0                          | 15                    | 0                    | J. A. Weener.          |            |
| Heath Spring.                          | Lancaster.    | 568             | 6                       | 75.3                            | +0.3                       | 96       | 1     | 55      | 26    | 26                   | 6.55                  | 2.00                       | 0                     | 10                   | 15                 | 13                 | 2                          | 0                     | J. A. Scott.         |                        |            |
| Kingsree (1).                          | Williamsburg. | 54              | 19                      | 78.1                            | +2.8                       | 93       | 1     | 60      | 26    | 23                   | 4.72                  | +0.70                      | 2.00                  | 0                    | 9                  | 17                 | 7                          | 6                     | 0                    | A. O. Matthews.        |            |
| Kingsree (2).                          | Williamsburg. | 54              | 13                      | 78.1                            | +2.8                       | 93       | 1     | 60      | 26    | 23                   | 4.72                  | +0.70                      | 2.00                  | 0                    | 9                  | 17                 | 7                          | 6                     | 0                    | Jno. T. Boggs.         |            |
| Liberty.                               | Pickens.      | 900             | 13                      | 73.7                            | +0.5                       | 92       | 1     | 53      | 26    | 32                   | 5.57                  | -0.08                      | 2.60                  | 0                    | 7                  | 17                 | 10                         | 3                     | 0                    | John M. Souse, M. D.   |            |
| Little Mountain.                       | Newberry.     | 630             | 14                      | 76.3                            | +0.4                       | 93       | 1     | 57      | 26    | 27                   | 4.52                  | +1.02                      | 1.90                  | 0                    | 8                  | 13                 | 12                         | 5                     | 0                    | W. G. Peterson.        |            |
| Newberry.                              | Newberry.     | 502             | 3                       | 76.2                            | +2.3                       | 97       | 3     | 57      | 26    | 30                   | 5.91                  | +0.27                      | 1.25                  | 0                    | 12                 | 8                  | 14                         | 8                     | 0                    | John M. Ward.          |            |
| Palmer.                                | Anderson.     | 873             | 2                       | 76.2                            | +2.3                       | 97       | 3     | 57      | 26    | 30                   | 5.91                  | +0.27                      | 1.25                  | 0                    | 12                 | 8                  | 14                         | 8                     | 0                    | E. P. Ravenel.         |            |
| Pinopolis.                             | Berkeley.     | 54              | 14                      | 76.9                            | +2.7                       | 90       | 3     | 62      | 27    | 19                   | 8.18                  | +2.93                      | 4.35                  | 0                    | 12                 | 18                 | 0                          | 12                    | 0                    | G. T. Lewis.           |            |
| Pinopolis.                             | Dorchester.   | 100             | 19                      | 77.8                            | +2.9                       | 92       | 3     | 62      | 27    | 19                   | 8.18                  | +2.93                      | 4.35                  | 0                    | 12                 | 18                 | 0                          | 12                    | 0                    | J. S. Warranmaker.     |            |
| St. George.                            | Orangeburg.   | 260             | 19                      | 74.8                            | -0.3                       | 92       | 3     | 58      | 27    | 27                   | 7.38                  | +3.79                      | 3.20                  | 0                    | 8                  | 21                 | 0                          | 9                     | 0                    | Alvin Etheridge.       |            |
| St. Matthews.                          | Saluda.       | 536             | 6                       | 76.0                            | +1.0                       | 99       | 3     | 50      | 30    | 34                   | 5.04                  | 2.45                       | 0                     | 12                   | 16                 | 7                  | 4                          | 0                     | E. W. Jeter.         |                        |            |
| Saluda.                                | Union.        | 512             | 13                      | 75.0                            | +1.8                       | 90       | 3     | 51      | 26    | 30                   | 7.80                  | +4.40                      | 1.69                  | 0                    | 11                 | 8                  | 16                         | 6                     | 0                    | Weather Bureau.        |            |
| Santee.                                | Chatham.      | 71              | 38                      | 78.5                            | +3.1                       | 92       | 7     | 63      | 27    | 21                   | 6.82                  | +1.26                      | 1.62                  | 0                    | 13                 | 4                  | 15                         | 11                    | 0                    | H. van Keuren.         |            |
| Savannah, Ga.                          | Williamsburg. | 62              | 12                      | 75.0                            | +1.8                       | 91       | 3     | 57      | 25    | 27                   | 5.35                  | +1.43                      | 2.06                  | 0                    | 10                 | 17                 | 9                          | 4                     | 0                    | J. P. Lucas.           |            |
| Smiths Mills.                          | Darlington.   | 192             | 16                      | 74.2                            | +1.6                       | 94       | 9     | 52      | 26    | 33                   | 6.83                  | +2.66                      | 2.50                  | 0                    | 9                  | 12                 | 0                          | 18                    | 0                    | F. P. Robinson.        |            |
| Society Hill.                          | Spartanburg.  | 875             | 16                      | 76.9                            | +3.2                       | 93       | 3     | 58      | 26    | 25                   | 5.28                  | +2.11                      | 2.89                  | 0                    | 6                  | 3                  | 18                         | 9                     | 0                    | W. W. Anderson, M. D.  |            |
| Spartanburg.                           | Sumter.       | 500             | 30                      | 78.6                            | +3.6                       | 93       | 3     | 61      | 27    | 25                   | 6.39                  | +2.72                      | 2.51                  | 0                    | 15                 | 3                  | 19                         | 8                     | 0                    | Miss E. H. Gadsden.    |            |
| Stateburg.                             | Dorchester.   | 75              | 10                      | 75.2                            | -1.8                       | 95       | 2     | 56      | 28    | 28                   | 4.63                  | +0.87                      | 2.17                  | 0                    | 9                  | 10                 | 17                         | 3                     | 0                    | C. A. Long.            |            |
| Summerville.                           | Edgefield.    | 620             | 14                      | 77.4                            | +3.9                       | 94       | 9     | 58      | 26    | 24                   | 6.98                  | +3.01                      | 3.70                  | 0                    | 14                 | 1                  | 20                         | 6                     | 0                    | Elsell Gaillard.       |            |
| Trenton.                               | Berkeley.     | 85              | 21                      | 77.1                            | +0.7                       | 95       | 2     | 45      | 26    | 33                   | 4.69                  | -0.09                      | 1.80                  | 0                    | 6                  | 9                  | 19                         | 1                     | 0                    | Miss Jessie Douthit.   |            |
| Trident.                               | Oconee.       | 1061            | 16                      | 71.1                            | +0.7                       | 95       | 2     | 45      | 26    | 33                   | 4.69                  | -0.09                      | 1.80                  | 0                    | 6                  | 9                  | 19                         | 1                     | 0                    | J. A. Westerberg.      |            |
| Wahalla.                               | Colleton.     | 69              | 4                       | 79.1                            | +3.1                       | 91       | 6     | 61      | 27    | 30                   | 7.39                  | 3.25                       | 0                     | 14                   | 10                 | 12                 | 8                          | 0                     | Weather Bureau.      |                        |            |
| Walterboro.                            | New Hanover.  | 52              | 38                      | 76.7                            | +3.6                       | 89       | 25    | 60      | 26    | 26                   | 6.01                  | +0.74                      | 3.58                  | 0                    | 8                  | 15                 | 10                         | 5                     | 0                    | John W. Seigler.       |            |
| Wilmington, N. C.                      | Fairfield.    | 545             | 18                      | 75.4                            | +2.5                       | 95       | 3     | 56      | 26    | 25                   | 8.00                  | +4.17                      | 1.20                  | 0                    | 11                 | 19                 | 9                          | 2                     | 0                    | E. R. Rivers.          |            |
| Winnsboro.                             | York.         | 690             | 8                       | 73.6                            | +0.4                       | 90       | 1     | 54      | 26    | 26                   | 5.81                  | +1.69                      | 2.17                  | 0                    | 10                 | 19                 | 8                          | 3                     | 0                    | J. G. Hutson.          |            |
| Winthrop College.                      | Beaufort.     | 23              | 12                      | 76.0                            | -0.5                       | 93       | 3     | 61      | 27    | 20                   | 9.35                  | +6.33                      | 4.75                  | 0                    | 14                 | 10                 | 7                          | 13                    | 0                    | J. R. Schorb.          |            |
| Yemassee.                              | York.         | 680             | 19                      | 75.4                            | +1.8                       | 94       | 3     | 53      | 26    | 30                   | 5.78                  | +1.40                      | 2.52                  | 0                    | 10                 | 8                  | 15                         | 7                     | 0                    |                        |            |
| Yorkville.                             | York.         | 680             | 19                      | 75.4                            | +1.8                       | 94       | 3     | 53      | 26    | 30                   | 5.78                  | +1.40                      | 2.52                  | 0                    | 10                 | 8                  | 15                         | 7                     | 0                    |                        |            |
| MEANS—highest, lowest and dates, etc.. |               |                 |                         | 76.0                            | +1.8                       | 99       | 3     | 45      | 26    | 34                   | 5.91                  | +1.86                      | 7.00                  | 0                    | 9                  | 13                 | 11                         | 6                     | 8                    |                        |            |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also a indicates 1 day missing, b, 2 days, etc. The state of sky at 8 a.m. not used in averages.







# TOTAL PRECIPITATION FOR SEPTEMBER, 1907.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, SEPTEMBER, 1907.

| STATIONS.         | Day of Month. |      |      |      |     |     |     |     |      |      |      |     |      |      |      |     |     |    |     |     |      |      |      |      |      |      |      |      |      |      |      | Total. |      |
|-------------------|---------------|------|------|------|-----|-----|-----|-----|------|------|------|-----|------|------|------|-----|-----|----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|--------|------|
|                   | 1             | 2    | 3    | 4    | 5   | 6   | 7   | 8   | 9    | 10   | 11   | 12  | 13   | 14   | 15   | 16  | 17  | 18 | 19  | 20  | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   |        |      |
| Aiken             |               |      |      |      | .20 |     |     |     | .42  |      |      | .40 |      |      | .10  |     |     |    |     |     |      | .20  |      |      |      |      |      | .60  | 1.70 |      |      | 3.42   |      |
| Allendale         |               |      |      |      |     |     |     |     |      |      |      | .65 | .40  |      | .55  | T.  |     |    |     | .18 |      |      | .50  |      |      |      |      | .70  | 6.00 |      |      | 9.18   |      |
| Anderson          |               |      | .74  |      |     |     |     | .33 |      |      | .49  |     |      |      | .01  |     |     |    |     |     |      | .66  | 1.41 |      |      |      |      | .81  | .03  |      |      | 4.48   |      |
| Angusta, Ga.      |               |      | .13  | .07  | .05 |     |     | .14 |      | .27  | .55  |     |      | T.   | .03  |     |     |    |     |     | T.   | .11  | .05  | .18  |      |      |      | .67  | 1.02 | .61  |      | 3.88   |      |
| Barksdale         |               |      |      |      |     |     |     |     |      |      |      |     |      |      |      |     |     |    |     |     |      |      |      |      |      |      |      |      |      |      |      |        |      |
| Batesburg         | T.            |      |      | T.   | .10 | T.  |     |     |      |      | .23  |     |      |      | .64  |     | .11 |    |     |     |      | .04  | .55  | .41  |      |      |      | .42  | 1.60 |      |      | 4.10   |      |
| Beaufort          |               | T.   |      |      |     |     |     |     |      |      | .19  | .03 |      | .24  | .08  |     |     |    |     | .57 | .07  | .01  |      | .12  |      |      | .36  | 1.64 | T.   |      | 3.61 |        |      |
| Bennettsville     |               | .23  | .81  | .10  |     |     |     |     |      | .11  | .43  |     |      |      | T.   |     |     |    |     |     |      | .06  | .22  |      |      |      |      | 2.45 |      |      |      | 4.41   |      |
| Blackville        |               | 1.40 | .40  |      |     |     |     | T.  |      |      | .10  | .50 | .20  | T.   | .60  | .02 |     |    |     |     |      | .60  | 1.05 |      |      |      |      | 2.00 | 3.15 |      |      | 10.02  |      |
| Blairs            |               |      |      |      |     |     |     |     |      |      | .65  |     |      |      | .14  |     |     |    |     |     |      | 1.04 | .08  |      |      |      |      | .80  | .82  |      |      | 3.53   |      |
| Bowman            |               | .47  | .68  | T.   |     |     |     |     |      |      | .40  | .54 | 1.05 | .55  | .03  | .14 |     |    | .27 | .10 |      | .22  | .18  |      |      | T.   | 2.05 | 3.78 |      |      | 9.86 |        |      |
| Calhoun Falls     |               |      | .82  |      |     |     |     |     |      |      | .35  | .38 |      |      |      |     |     |    |     |     |      | .94  |      |      |      |      |      | .85  | .91  |      |      | 4.25   |      |
| Camden (1)        |               | .49  | .51  | T.   |     |     |     | .09 |      | .61  | .72  |     |      |      | .35  | T.  |     |    |     |     | 1.81 | .30  |      |      |      |      | .87  | 1.23 |      |      | 6.98 |        |      |
| Camden (2)        |               |      | .09  |      | .10 |     |     |     |      | .28  | 1.70 |     |      | .06  | .04  |     |     |    |     |     |      |      | .76  | .12  |      |      |      | .38  | 1.60 |      |      | 6.10   |      |
| Catawba           |               | .42  | .12  |      |     |     |     |     |      | .32  | .82  |     |      |      |      |     |     |    |     |     |      | 3.02 | 1.17 |      |      |      | .84  | 1.20 |      |      | 7.91 |        |      |
| Chappells         |               |      | .22  |      |     |     |     |     |      | 1.46 |      |     |      |      |      |     |     |    |     |     |      | .12  | .07  |      |      |      |      | 1.20 | .90  |      |      | 3.97   |      |
| Charleston        | .14           |      | T.   | .03  |     |     |     |     |      | T.   | .18  | T.  | .08  | .48  | .41  |     |     |    |     |     |      | T.   | T.   | .87  | 1.08 |      | .40  | .30  | .02  | .65  |      | 2.73   |      |
| Charlotte, N. C.  |               | .50  | T.   | .03  |     |     |     | .01 | .01  | .09  | .01  |     |      |      |      |     |     |    |     |     |      | T.   | T.   | .87  | 1.08 |      |      | 1.12 | .04  |      |      | 3.76   |      |
| Cheraw(1)         |               | 1.18 | .50  | .04  |     |     |     |     |      | .41  | .48  |     |      |      |      | T.  |     |    |     |     |      | .39  |      |      |      |      | .62  | 2.09 |      |      | 5.81 |        |      |
| Cheraw(2)         |               |      | 1.10 | .52  | .04 |     |     |     |      | .42  | .46  |     |      |      |      | .02 |     |    |     |     |      | .36  | .06  |      |      |      | .60  | 2.10 |      |      | 5.68 |        |      |
| Clark's Hill      |               | .36  |      |      |     |     |     | .17 |      | 2.12 | .12  |     |      | .44  |      | .12 |     | T. |     |     | T.   |      | .94  | .25  |      |      |      | 1.36 | 1.00 |      |      | 6.88   |      |
| Clemson College   |               | .68  |      |      |     |     |     |     |      |      |      |     |      |      |      |     |     |    |     |     |      | 2.00 |      |      |      |      |      | .58  |      |      | 3.26 |        |      |
| Columbia          |               | .08  | T.   | .58  |     |     |     | .43 | .28  | .01  | .79  |     | .49  |      |      |     | T.  |    |     |     |      | .87  | .10  |      |      | T.   | 1.16 | .84  |      |      | 5.72 |        |      |
| Conway            |               |      | T.   | .65  | .60 |     |     |     |      |      | .30  | .40 |      |      | .61  | .09 | T.  |    |     |     |      | .62  | 1.40 |      |      |      | .06  | 3.80 |      |      | 8.55 |        |      |
| Darlington        |               | T.   | .68  | .01  | .20 |     | T.  |     |      |      | .64  | .04 |      | T.   |      |     |     |    |     |     |      | .21  | .24  |      |      | T.   | .90  | 1.50 |      |      | 4.42 |        |      |
| Dillon            |               | .05  |      |      |     |     |     |     | T.   | .55  | .03  |     |      | T.   |      | T.  |     |    |     |     |      | .03  | .40  |      |      |      | 1.10 | 1.95 |      |      | 4.11 |        |      |
| Due West          |               |      |      |      |     |     |     |     |      |      |      |     |      |      |      |     |     |    |     |     |      |      |      |      |      |      |      |      |      |      |      |        |      |
| Edisto            |               |      | .20  | .36  |     |     |     |     |      |      |      |     | .29  | .51  | 1.43 |     |     |    |     | .63 |      | .27  | .91  | 1.12 |      |      | .91  | 1.79 |      |      | 8.42 |        |      |
| Eflingham         |               |      |      | .90  |     |     |     |     |      |      | .95  | .50 |      |      |      |     |     |    |     |     |      |      | .50  |      |      |      | T.   | .95  |      |      | 3.80 |        |      |
| Florence          |               |      | .07  | .18  |     |     |     |     |      |      | 1.17 |     |      | 1.76 |      | .11 |     |    |     |     |      |      |      | .35  |      |      |      | .27  | 2.66 |      |      | 4.86   |      |
| Georgetown        |               |      |      |      |     |     |     |     |      | .78  |      |     |      |      |      |     |     |    |     |     |      | 2.50 |      |      |      |      |      |      |      |      | 5.04 |        |      |
| Greenville        |               |      | .40  | .80  |     |     | .09 | .55 |      | .57  |      |     |      |      |      |     |     |    |     |     | T.   | 2.02 |      |      |      |      | .55  | .33  |      |      | 6.31 |        |      |
| Greenwood         |               |      | .18  |      |     |     |     |     |      | .90  | .05  |     | .05  |      |      |     |     |    |     | .80 |      | .30  | 2.10 |      |      |      | .80  | 1.05 |      |      | 5.43 |        |      |
| Heath Spring      |               |      | .15  | .17  | .20 |     | .17 |     |      | .70  | .87  |     |      |      |      |     |     |    |     |     | 1.50 | .75  |      |      |      |      | 2.00 | .14  |      |      | 6.65 |        |      |
| Kingsree(1)       | .26           |      |      | .04  | .49 |     |     |     |      |      | .20  | .10 | 1.32 |      |      |     |     |    |     |     |      | .21  |      | .21  |      |      | .10  | 2.00 |      |      | 4.72 |        |      |
| Kingsree(2)       | .40           |      | T.   | .50  |     |     |     |     |      |      | .25  | T.  | 1.35 |      |      |     |     |    |     |     |      | .38  | .15  |      |      |      | T.   | 2.20 |      |      | 5.23 |        |      |
| Liberty           |               | .70  | .35  |      |     |     |     |     | T.   |      | .70  |     |      |      |      | .10 |     |    |     |     |      | 2.60 | .50  |      |      |      | .62  |      |      |      | 5.57 |        |      |
| Little Mountain   |               | .50  | .10  |      |     |     | .05 |     |      | .20  | .01  |     |      |      |      |     |     |    |     |     |      | .37  | .60  |      |      | T.   | 1.90 | .80  |      |      | 4.52 |        |      |
| Newberry          |               | .01  | .03  | .53  |     | .08 |     |     |      | .20  | .01  |     |      |      |      | .10 | T.  |    |     |     | .08  | .30  | .12  |      |      |      | .70  | 1.25 |      |      | 3.91 |        |      |
| Pelzer            |               |      | .86  | .08  |     |     | .18 |     |      | .20  |      |     |      |      |      | .20 |     |    |     |     |      |      |      |      |      |      | .60  | .36  |      |      | 5.38 |        |      |
| Pinopolis         |               |      | 1.00 |      |     |     |     |     |      |      | .30  |     |      |      | .52  |     |     |    |     |     |      | .70  |      |      |      |      | .25  | 7.00 |      |      | 9.77 |        |      |
| St. George        |               |      | .17  | .15  |     |     |     |     |      |      |      | .12 | .68  | .13  | 1.28 | .01 |     |    |     |     |      | .43  | .34  | .14  |      |      |      | .35  | 4.35 |      |      | 8.18   |      |
| St. Matthews      |               |      | .42  |      |     |     |     |     |      |      | .87  |     | 1.08 | .04  |      |     |     |    |     |     |      | .82  |      |      |      |      | .75  | .20  | 3.20 |      |      | 7.38   |      |
| Saluda            |               | .12  |      | .54  |     |     | .01 |     | .25  |      | .24  | .05 |      | .02  |      |     |     |    |     |     | T.   | .36  | .31  |      |      |      | 2.45 | 1.08 | .01  |      | 5.84 |        |      |
| Santee            |               | .77  | .06  | T.   |     |     | .18 | .20 | 1.29 | .96  |      |     |      | .60  |      |     |     |    |     |     |      | 1.69 | .61  |      |      |      | T.   | 1.07 | .37  |      |      | 7.80   |      |
| Savannah, Ga.     |               |      | .40  |      |     |     |     |     | T.   | T.   | 1.03 | .04 | 1.07 | 1.04 | .07  |     |     |    | .04 | .11 | .04  | 4.31 | T.   |      |      | 1.13 | .65  | .53  |      |      | 6.82 |        |      |
| Smith Mills       |               |      |      | .56  | .08 |     |     |     |      |      | .21  | .08 |      |      |      |     |     |    |     |     |      | .31  |      |      |      |      |      | .52  |      |      | 7.13 |        |      |
| Society Hill      |               | .20  | 1.82 | .16  |     | .02 |     |     |      | .37  | .58  |     |      |      |      |     |     |    |     |     |      | .25  | .10  |      |      |      | .29  | 2.06 |      |      | 5.85 |        |      |
| Spartanburg       |               |      | .10  | .90  |     |     | .23 | .50 |      |      | .88  | T.  |      |      |      |     |     |    |     |     |      |      | 2.32 | .67  |      |      |      | .63  | .60  |      |      | 6.83   |      |
| Stateburg         |               | .19  | T.   |      |     |     |     |     |      | 1.19 |      | .06 |      |      |      |     |     |    |     |     |      | .57  |      |      |      |      |      | 1.24 | 2.03 |      |      | 5.28   |      |
| Summerville       |               |      | .32  | .10  |     |     |     |     |      | .20  | .27  | .63 | .03  | .16  | .02  |     |     |    |     | T.  | T.   |      | .20  | .04  |      | .02  | .02  | 1.82 | 2.51 |      |      | 6.39   |      |
| Trenton           | .05           |      | .14  | T.   | .30 |     | .06 |     |      | .83  |      | .07 |      | .20  |      |     |     |    |     |     |      | .83  |      |      |      |      |      | T.   | 1.00 | 1.17 |      |        | 4.03 |
| Trial             | T.            |      | .05  | .20  |     |     |     |     |      | .29  | .23  | .05 | .56  | .33  | .03  |     |     |    |     |     | .12  | .47  |      |      |      |      | .11  | T.   | .48  | .36  | 3.70 |        | 6.98 |
| Walhalla          |               |      | 1.44 | .20  |     |     |     |     |      | .25  |      |     |      |      |      | .20 |     |    |     |     |      | 1.80 |      |      |      |      |      | .80  |      |      |      | 4.69   |      |
| Walterboro        | .29           |      | .32  | .94  |     |     |     |     |      | T.   | .10  | .19 | .14  | .24  |      |     |     |    | .04 | .05 | .51  | T.   | .18  |      |      |      | .04  | T.   | 1.10 | 3.25 |      | 7.39   |      |
| Wilmington, N. C. |               |      | T.   | .62  | .74 |     |     |     |      | .60  | .55  |     | .01  | .50  |      | T.  |     |    |     |     |      | .45  |      |      |      |      |      | .01  | .89  | 2.79 |      | 6.01   |      |
| Winnboro          |               | .25  | .70  | 1.20 |     |     |     |     |      | .28  | .12  |     |      |      | .25  |     |     |    |     |     |      | 1.10 | .85  |      |      | .80  | .97  | .73  |      |      |      | 8.00   |      |
| Winthrop College  |               |      | .83  | .05  |     |     | .18 |     |      |      |      |     |      |      | T.   |     |     |    |     |     |      | .01  | 2.17 | .22  |      |      |      | 1.55 | .40  |      |      | 5.81   |      |
| Yemassee          | .35           |      |      | .35  | .31 |     |     | .18 |      |      |      |     | .51  | .37  | .42  | .08 |     |    |     |     | .32  |      | .08  | .30  | .25  | .20  |      | 1.06 | 4.75 |      |      | 9.35   |      |
| Yorkville         |               |      | .21  | .02  | T.  |     | .18 | .13 | .25  | .85  |      |     |      |      |      |     |     |    |     |     |      | .18  | 2.52 |      |      |      |      | 1.14 | .27  |      |      | 5.78   |      |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR OCTOBER, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

NOVEMBER 25, 1907.





U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
OF THE  
**WEATHER BUREAU.**  
CENTRAL OFFICE: WASHINGTON, D. C.  
  
SOUTH CAROLINA SECTION,  
J. W. BAUER, Section Director.

VOL. X. COLUMBIA, S. C., OCTOBER, 1907. No. 10.

GENERAL SUMMARY.

The month was much cooler than the average. The mean temperature was nearly as low as the lowest of record. The monthly averages ranged from about 1° to over 5° below the normal. The highest temperatures occurred generally during the first ten days. Maximum temperatures of 90°, or above, were recorded at 3 out of the 44 stations, at two stations on the 7th and one station on the 8th. Minimum temperatures of 32°, or below, occurred at 13 of the 44 stations.

There were two cool periods during the month. The first, from the 13th to the 17th, caused the first light frosts of the season in all, except the extreme southern, portions and heavy frosts in the central and western portions. The second cool period began on the 29th and continued to the 31st. The first killing frost of the season occurred in many places on the 29th, but the killing frosts were not general, having occurred principally on low, moist lands.

The precipitation was unusually light, and was below the normal over the whole State. The monthly amounts were less than an inch at the majority of stations, the extreme southern and the extreme northwestern portions only having received amounts of one inch or more. The departures from the normals ranged from an inch and a half to over four inches. There were general rains on the 8th-9th and 27th-28th, and widely scattered showers occurred on the 4th-5th, 20th, and 31st.

The prevailing winds were, as usual, from the northeast. Generally abundant sunshine prevailed thruout the month. No floods or high waters occurred in any of the rivers.

TEMPERATURE.

The mean temperature was 61.2°, which is 2.3° below the normal. The highest local mean was 65.2° at Beaufort, the lowest was 55.7° at Greenville. The monthly extremes of temperature were 91° at Walterboro on the 7th, and 28° at Aiken on the 29th, making the state range 63°. The greatest local monthly range was 61° at Saluda, the least was 44° at Charleston and at Clemson College. The mean of the daily maximum temperatures was 72.9°, and of the daily minimum temperatures was 49.5°, making the average daily range 23.4°.

PRECIPITATION.

The average precipitation was 0.73 of an inch, which is 2.40 inches below the normal. The greatest local monthly amount was 2.32 inches at Beaufort, the least was none at Aiken. The greatest 24-hour fall was 1.93 inch at Beaufort on the 9th. The average number of days with rain

was 3, ranging from none at Aiken to 5 days at Kingstree, Summerville, and Walterboro.

EXCESSIVE PRECIPITATION.—None occurred.

WIND.

The prevailing direction of the wind was from the northeast at 11 stations, from the north at 9 stations, from the northwest at 8 stations, from the southwest at 6 stations, from the east and the west at 5 stations each, from the south at 2 stations, and from the southeast at 1 station.

HIGH WINDS.—At Camden on the 28th; at Charleston on the 31st; at Columbia on the 29th.

SUNSHINE AND CLOUDINESS.

The average number of clear days was 19, of partly cloudy days was 7, and of cloudy days was 5.

MISCELLANEOUS PHENOMENA.

SOLAR HALOS.—At Charleston on the 20th.

LUNAR HALOS.—At Charleston, Columbia on the 20th; at Greenville on the 16th; at Liberty on the 14th, 19th; at Winthrop College on the 30th.

DENSE FOGS.—At Beaufort on the 18th, 20th, 27th; at Camden on the 20th, 27th; at Trial on the 20th, 26th, 27th.

THUNDERSTORMS.—Thunderstorms occurred on four days. Three stations, in the eastern division, reported their occurrence on the 8th, and one on the 9th. Three stations, in the central counties, on the 27th, and one on the 28th.

FROSTS, LIGHT.—The first light frost of the season was reported as follows: On the 11th at Anderson, Liberty, Newberry, Pelzer; on the 12th at Greenville; on the 13th at Clarks Hill, Greenwood; on the 14th at Blackville, Columbia, Georgetown, Santuc, Spartanburg, Trenton, Walterboro, Winthrop College, Yorkville; on the 15th at Catawba, Charleston, Cheraw, Heath Springs, St. George, Smiths Mills, Society Hill, Summerville, Trial; on the 29th at Beaufort.

FROSTS, KILLING.—The first killing frosts of the season occurred on the 15th at Heath Springs, Newberry; on the 29th at Stateburg, Blackville, Catawba, Columbia, Greenwood, Kingstree, Santuc, Trenton, Yemassee; on the 30th at Cheraw; on the 31st at Trial.

BAROMETER AND WIND TABLE FOR OCTOBER, 1907.

| STATIONS.              | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|------------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                        | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                        |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga. ....      | 30.14      | 30.45    | 16    | 29.89   | 7     | 3.809           | 5.1             | 26                | sw.        | 27    |
| Charleston, .....      | 30.12      | 30.44    | 16    | 29.89   | 5     | 7.894           | 10.5            | 36                | ne.        | 31    |
| Charlotte, N. C. ....  | 30.15      | 30.55    | 31    | 29.84   | 3     | 4.513           | 6.1             | 24                | nw.        | 28    |
| Columbia, .....        | 30.14      | 30.47    | 16    | 29.88   | 8     | 3.693           | 5.0             | 30                | sw.        | 27    |
| Savannah, Ga. ....     | 30.12      | 30.44    | 16    | 29.92   | 5     | 5.044           | 6.8             | 26                | n.         | 8     |
| Wilmington, N. C. .... | 30.13      | 30.48    | 16    | 29.84   | 5     | 5.486           | 7.4             | 30                | nw.        | 28    |
| Averages .....         | 30.13      | 30.55    | 31    | 29.84   | 5     | 5.076           | 6.8             | 36                | ne.        | 31    |

\* On other dates also.



## RIVER GAGE READINGS, OCTOBER, 1907.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 0.4   | 1.6      | 1     | 0.1     | *5    |
| Calhoun Falls    | 2.9   | 3.9      | 1     | 2.3     | *24   |
| Camden           | 4.8   | 9.6      | 1     | 2.5     | 21    |
| Catawba          | 1.7   | 2.5      | 29    | 1.2     | 27    |
| Chappells        | 2.2   | 4.0      | 1     | 1.8     | *26   |
| Cheraw           | 1.8   | 4.9      | 1     | 1.2     | 27    |
| Columbia         | 0.7   | 2.5      | 20    | 0.0     | 13    |
| Edisto           | 2.7   | 5.0      | 5     | 1.3     | *25   |
| Effingham        | 3.6   | 5.3      | *2    | 2.9     | *22   |
| Kingsree         | 3.3   | 6.3      | 3     | 0.4     | *30   |
| Mt. Holly, N. C. | 1.9   | 2.0      | *1    | 1.8     | *11   |
| Pelzer           | 2.5   | 3.3      | 13    | 1.8     | 10    |
| Rimini           | 5.2   | 12.6     | 1     | 2.9     | 29    |
| Smith Mills      | 3.6   | 9.9      | 1     | 1.0     | *23   |

\* On other dates also.

## REMARKS BY OBSERVERS.

BATESBURG.—The month was noteworthy for its small rainfall. The frost on the 14th was killing on low, moist lands; on high lands and where the soil was dry the frost did little damage. On the 29th the frost was generally killing.—E. J. Hite. BEAUFORT.—With the exception of 1891, this was the coolest October of record. The prevailing weather was clear and dry.—S. M. Benton. CAMDEN.—The weather was favorable. The precipitation was unusually light.—J. B. Mickle. LIBERTY.—All summer crops were killed by frosts on low lands; on high lands the frosts did very little damage.—Jno. T. Boggs. NEWBERRY.—The month was very dry and favorable for farm work.—W. G. Peterson. SANTUC.—The weather was clear, or partly cloudy, during the greater portion of the month. The precipitation was very light until the 27th, and the air was very dusty.—E. W. Jeter. SOCIETY HILL.—With the exception of 1901, this was the driest October of record, since 1892. The weather was favorable for harvesting.—Maj. J. J. Lucas. STATEBURG.—There was no frost during the month severe enough to kill tender vegetation except on low lands.—W. W. Anderson, M. D. SUMMERVILLE.—The average relative humidity was 50 per cent. There were heavy dews during the latter portion of the month.—Miss E. H. Gadsden. TRENTON.—The total precipitation since January 1st is 12.66 inches below the normal for the same period.—C. A. Long.

## ERRATA.

The following changes should be made in the September, 1907, number of the Monthly Report, namely: On page 69, at Aiken, the highest temperature and date, 94 on the 1st, should be 96 on the 3d; at Cheraw, the highest temperature and date, 91 on the 9th, should be 93 on the 4th; at Saluda, the monthly mean temperature 76.0, should be 75.8, and the total precipitation 5.84, should be 5.44. On

page 70, at Saluda, the minimum temperature on the 4th 76, should be 69, and the monthly mean temperature 64.5, should be 64.2. On page 72, at Saluda, the total precipitation 5.84, should be 5.44.

DATA FOR SOCIETY HILL, S. C.  
Temperature.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec.  | Year. |
|-------|------|------|------|------|------|-------|-------|------|-------|------|------|-------|-------|
| 1891. | 41   | 50   | 54   | 67   | 70   | 76    | 77    | 73   | 57    | 53   | 49   | ..... | ..... |
| 1892. | 36   | 50   | 54   | 67   | 69   | 75    | 81    | 76   | 72    | 61   | 51   | 45    | 62    |
| 1893. | 47   | 49   | 60   | 62   | 70   | 76    | 76    | 76   | 73    | 62   | 51   | 47    | 62    |
| 1894. | 44   | 36   | 53   | 60   | 66   | 76    | 78    | 78   | 75    | 59   | 53   | 45    | 60    |
| 1895. | 43   | 48   | 52   | 67   | 75   | 76    | 80    | 79   | 73    | 61   | 57   | 43    | 63    |
| 1896. | 41   | 49   | 56   | 61   | 68   | 77    | 78    | 76   | 72    | 65   | 54   | 46    | 62    |
| 1897. | 49   | 44   | 59   | 58   | 74   | 79    | 80    | 80   | 75    | 63   | 50   | 45    | 63    |
| 1898. | 43   | 42   | 56   | 60   | 76   | 79    | 81    | 82   | 72    | 64   | 54   | 44    | 63    |
| 1899. | 44   | 45   | 51   | 63   | 72   | 78    | 82    | 83   | 77    | 66   | 55   | 45    | 63    |
| 1900. | 43   | 42   | 54   | 56   | 72   | 77    | 81    | 80   | 73    | 62   | 46   | 43    | 61    |
| 1901. | 42   | 39   | 51   | 61   | 73   | 79    | 82    | 78   | 72    | 64   | 58   | 45    | 62    |
| 1902. | 43   | 49   | 61   | 61   | 72   | 74    | 81    | 80   | 72    | 61   | 49   | 40    | 62    |
| 1903. | 39   | 42   | 56   | 59   | 70   | 77    | 79    | 77   | 72    | 60   | 50   | 48    | 60    |
| 1904. | 40   | 38   | 58   | 61   | 73   | 79    | 81    | 77   | 74    | 61   | 51   | 42    | 61    |
| 1905. | 45   | 42   | 50   | 65   | 70   | 78    | 79    | 81   | 77    | 60   | 52   | 46    | 62    |
| M'ns  | 42.7 | 43.9 | 55.2 | 61.5 | 71.2 | 77.3  | 79.5  | 78.6 | 73.2  | 61.6 | 52.4 | 45.1  | 62.7  |

## Precipitation.

| Year. | Jan. | Feb.  | Mar.  | Apr.  | May.  | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1891. | 6.92 | ..... | ..... | ..... | 2.67  | 5.38  | 5.13  | 9.50  | 3.42  | 3.68 | 2.01 | 0.65 | ..... |
| 1892. | 2.00 | 6.75  | 1.59  | 0.96  | 5.80  | 5.55  | 6.65  | ..... | 8.18  | 4.52 | 3.16 | 3.86 | ..... |
| 1893. | 2.50 | 4.07  | 3.09  | 3.85  | 2.44  | 4.99  | 6.08  | 12.26 | 9.56  | 6.29 | 0.92 | 2.49 | 58.54 |
| 1894. | 6.83 | 3.29  | 6.64  | 8.67  | 1.93  | 4.30  | 4.60  | 4.27  | 0.78  | 2.71 | 2.04 | 3.26 | 49.12 |
| 1895. | 2.17 | 4.52  | 1.19  | 0.95  | 3.88  | 5.96  | 7.06  | 3.07  | 4.26  | 1.11 | 3.91 | 2.11 | 41.09 |
| 1896. | 0.94 | 8.24  | 3.38  | 6.31  | 2.09  | 6.86  | 6.20  | 2.94  | 1.05  | 5.26 | 0.80 | 2.10 | 46.17 |
| 1897. | 1.78 | 1.19  | 4.20  | 5.09  | 2.18  | 4.57  | 9.27  | 7.73  | 3.17  | 1.58 | 5.21 | 1.28 | 48.45 |
| 1898. | 4.03 | 10.21 | 3.00  | 2.60  | 1.00  | 5.06  | 4.74  | 3.55  | 2.78  | 8.26 | 1.89 | 2.06 | 49.20 |
| 1900. | 1.63 | 6.54  | 3.20  | 5.07  | 1.17  | 7.02  | 2.15  | 4.11  | 4.35  | 2.49 | 3.09 | 6.25 | 47.07 |
| 1901. | 2.76 | 1.95  | 3.83  | 3.03  | 10.50 | 6.11  | 9.61  | 5.50  | 7.46  | 0.20 | 1.10 | 5.12 | 57.77 |
| 1902. | 2.47 | 4.93  | 2.43  | 3.02  | 4.20  | 2.28  | 3.42  | 4.87  | 2.00  | 2.82 | 5.27 | 2.21 | 39.92 |
| 1903. | 2.59 | 8.24  | 3.37  | 3.69  | 1.81  | 8.58  | 5.88  | 7.59  | 1.77  | 3.56 | 0.42 | 2.08 | 49.58 |
| 1904. | 3.07 | 2.93  | 2.60  | 2.13  | 2.83  | 8.78  | 1.94  | 9.61  | 6.86  | 2.06 | 3.07 | 2.49 | 51.40 |
| 1905. | 2.13 | 4.78  | 2.12  | 4.21  | 5.86  | 0.58  | 7.58  | 7.81  | 3.85  | 2.91 | 1.33 | 7.52 | 50.71 |
| 1906. | 4.26 | 2.43  | 5.23  | 0.59  | 1.95  | 9.97  | 6.79  | 5.19  | 4.03  | 3.70 | 0.88 | 3.79 | 48.81 |
| M'ns  | 3.07 | 5.00  | 3.28  | 3.69  | 3.37  | 5.73  | 6.33  | 6.09  | 4.19  | 3.34 | 2.34 | 2.19 | 49.62 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 47                    | 1894  | 36                   | 1893  | 6.92              | 1892  | 0.94           | 1897  |
| February  | 50                    | 1893  | 36                   | 1895  | 10.21             | 1899  | 1.19           | 1898  |
| March     | 61                    | 1903  | 51                   | 1900  | 6.64              | 1895  | 1.19           | 1896  |
| April     | 67                    | 1896  | 56                   | 1901  | 8.67              | 1895  | 0.59           | 1906  |
| May       | 76                    | 1899  | 66                   | 1895  | 10.50             | 1901  | 1.00           | 1899  |
| June      | 80                    | 1891  | 74                   | 1903  | 9.07              | 1906  | 0.58           | 1905  |
| July      | 82                    | 1900  | 76                   | 1891  | 11.28             | 1892  | 2.15           | 1900  |
| August    | 83                    | 1900  | 76                   | 1893  | 12.26             | 1894  | 2.94           | 1897  |
| September | 77                    | 1900  | 70                   | 1892  | 9.56              | 1894  | 0.78           | 1895  |
| October   | 66                    | 1900  | 57                   | 1891  | 8.26              | 1899  | 0.20           | 1901  |
| November  | 58                    | 1902  | 46                   | 1901  | 5.27              | 1902  | 0.42           | 1903  |
| December  | 49                    | 1891  | 40                   | 1903  | 7.52              | 1905  | 0.65           | 1891  |

\* And other years.

## COMPARATIVE OCTOBER DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |                |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |     |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|----------------|----------------|--------------------------|----------------------------------|-----|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                | Least Monthly. |                          |                                  |     |
|           |              |                  |                  |          |          |                | Amount.           | Place.         | Amount.        | Place.                   |                                  |     |
| 1894..... | 64.2         | 74.5             | 54.6             | 98       | 33       | 4.95           | 8.34              | Santuc.        | 0.47           | Branchville.             | 5                                | ne. |
| 1895..... | 61.3         | 71.2             | 48.8             | 95       | 28       | 1.15           | 2.71              | Society Hill.  | 0.09           | Allendale.               | 3                                | ne. |
| 1896..... | 61.3         | 71.1             | 51.0             | 91       | 28       | 1.41           | 2.75              | Spartanburg.   | 0.38           | Allendale.               | 4                                | ne. |
| 1897..... | 65.8         | 76.2             | 55.4             | 96       | 35       | 3.23           | 7.04              | Charleston.    | 1.20           | Effingham.               | 5                                | ne. |
| 1898..... | 62.9         | 72.1             | 52.6             | 90       | 28       | 3.82           | 7.81              | Gillisonville. | 1.58           | Society Hill.            | 9                                | ne. |
| 1899..... | 64.2         | 74.0             | 51.3             | 91       | 34       | 5.00           | 9.63              | Blackville.    | 1.97           | Gaffney.                 | 6                                | ne. |
| 1900..... | 67.6         | 76.6             | 58.6             | 95       | 33       | 3.65           | 8.44              | Smiths Mills.  | 1.79           | Florence.                | 9                                | ne. |
| 1901..... | 62.4         | 74.9             | 50.0             | 92       | 29       | 0.89           | 2.86              | Trenton.       | T.             | Georgetown.              | 3                                | ne. |
| 1902..... | 63.2         | 74.3             | 52.0             | 95       | 30       | 4.40           | 7.24              | Batesburg.     | 2.24           | Anderson.                | 7                                | ne. |
| 1903..... | 62.0         | 74.3             | 49.6             | 93       | 25       | 2.63           | 4.68              | Darlington.    | 0.86           | Calhoun Falls.           | 5                                | n.  |
| 1904..... | 62.4         | 74.8             | 49.9             | 98       | 26       | 1.10           | 4.75              | Charleston.    | 0.00           | Walhalla.                | 3                                | ne. |
| 1905..... | 64.2         | 75.8             | 52.5             | 93       | 29       | 1.97           | 5.20              | Liberty.       | 0.60           | St. George.              | 6                                | ne. |
| 1906..... | 61.9         | 71.7             | 52.1             | 90       | 24       | 3.69           | 12.15             | Georgetown.    | 0.84           | Bennettsville.           | 7                                | ne. |
| 1907..... | 61.2         | 72.9             | 49.5             | 91       | 28       | 0.73           | 2.32              | Beaufort.      | 0.00           | Aiken.                   | 3                                | ne. |



## CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER 1907.

| STATIONS.                             | Counties.       | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         | Precipitation—in inches. |                       |        |                            |                       | Sky.                             |                       |                        |                       |     | Observations.          |                    |
|---------------------------------------|-----------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|--------------------------|-----------------------|--------|----------------------------|-----------------------|----------------------------------|-----------------------|------------------------|-----------------------|-----|------------------------|--------------------|
|                                       |                 |                 |                         | Month.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date.                    | Condensed daily—rain. | Total. | Departure from the normal. | Greatest in 24 hours. | Total annual (actual or normal). | Number of rainy days. | Number of cloudy days. | Number of sunny days. |     |                        |                    |
| Ken...                                | Arken...        | 505             | 23                      | 62.6                               | -1.3                       | 86       | 28    | 29      | 18                       | 0.00                  | 1.09   | 0.08                       | 0                     | 0                                | 25                    | 4                      | 2                     | nw. | C. F. McAdam, M. D.    |                    |
| Ken...                                | Barnwell...     | 186             | 10                      | 61.8                               | -0.4                       | 87       | 36    | 29      | 31                       | 0.76                  | -1.74  | 0.40                       | 0                     | 2                                | 0                     | 1                      | 1                     | w.  | A. R. Hiers.           |                    |
| Ken...                                | Anderson...     | 704             | 0                       | 60.3                               | 0.1                        | 85       | 5     | 32      | 29                       | 1.11                  | -1.80  | 0.58                       | 0                     | 4                                | 17                    | 2                      | 17                    | w.  | H. H. Russell.         |                    |
| Ken...                                | Richmond...     | 134             | 36                      | 62.7                               | -0.9                       | 85       | 5     | 35      | 31                       | 0.52                  | 1.81   | 0.37                       | 0                     | 4                                | 15                    | 11                     | 5                     | nw. | Weather Bureau.        |                    |
| Ken...                                | Laurens...      | 680             | 6                       |                                    |                            |          |       |         |                          |                       |        |                            | 0                     | 4                                | 15                    | 11                     | 5                     | nw. | J. T. Garrett.         |                    |
| Ken...                                | Lexington...    | 656             | 10                      | 60.2                               | -2.9                       | 82       | 33    | 31      | 32                       | 0.06                  | -3.22  | 0.06                       | 0                     | 1                                | 19                    | 7                      | 5                     | 8.  | E. J. Hite.            |                    |
| Ken...                                | Beaufort...     | 20              | 21                      | 65.2                               | -2.5                       | 85       | 31    | 29      | 32                       | 2.02                  | 1.12   | 1.93                       | 0                     | 4                                | 21                    | 5                      | 5                     | ne. | S. M. Benton.          |                    |
| Ken...                                | Marlboro...     | 151             | 6                       | 60.6                               |                            | 85       | 31    | 31      | 31                       | 0.29                  | 0.21   |                            | 0                     | 3                                | 22                    | 5                      | 1                     | w.  | C. S. McCall.          |                    |
| Ken...                                | Barnwell...     | 206             | 10                      | 63.2                               | 1.0                        | 88       | 35    | 28      | 35                       | 0.50                  | 2.72   | 0.35                       | 0                     | 4                                | 18                    | 8                      | 5                     | ne. | Miss M. E. Lange.      |                    |
| Ken...                                | Fairfield...    | 203             | 2                       |                                    |                            |          |       |         |                          | 0.50                  | 0.30   |                            | 0                     | 2                                | 17                    | 11                     | 3                     | nw. | T. S. McMeekin.        |                    |
| Ken...                                | Orangeburg...   | 160             | 6                       | 62.8                               |                            | 87       | 31    | 29      | 35                       | 0.49                  | 0.18   |                            | 0                     | 5                                | 19                    | 11                     | 1                     | w.  | B. O. Evans.           |                    |
| Ken...                                | Abbeville...    | 508             | 14                      |                                    |                            |          |       |         |                          | 0.58                  | -3.23  | 0.37                       | 0                     | 2                                | 22                    | 0                      | 9                     | nw. | P. J. Pfeiffer.        |                    |
| Ken...                                | Kershaw...      | 2               | 2                       | 60.0                               |                            | 85       | 7     | 29      | 36                       | 0.46                  | 0.42   |                            | 0                     | 2                                | 19                    | 8                      | 4                     | e.  | J. B. Mickle.          |                    |
| Ken...                                | Kershaw...      | 222             | 41                      |                                    |                            |          |       |         |                          | 0.90                  | -2.25  | 0.21                       | 0                     | 3                                | 25                    | 4                      | 2                     | e.  | W. C. Brown.           |                    |
| Ken...                                | Kershaw...      | 2               | 2                       |                                    |                            |          |       |         |                          | 0.90                  | 0.00   |                            | 0                     | 1                                | 22                    | 5                      | 4                     | ne. | James Y. Brice.        |                    |
| Ken...                                | York...         | 2               | 2                       |                                    |                            |          |       |         |                          | 0.90                  | 0.86   |                            | 0                     | 2                                | 15                    | 12                     | 4                     | sw. | W. R. Zimmerman.       |                    |
| Ken...                                | Newberry...     | 402             | 2                       |                                    |                            |          |       |         |                          | 0.90                  | 1.02   |                            | 0                     | 4                                | 20                    | 7                      | 4                     | n.  | Weather Bureau.        |                    |
| Ken...                                | Charleston...   | 48              | 38                      | 65.0                               | 2.1                        | 87       | 43    | 29      | 23                       | 1.51                  | -2.40  | 1.02                       | 0                     | 2                                | 19                    | 5                      | 7                     | n.  | Weather Bureau.        |                    |
| Ken...                                | Mecklenburg...  | 808             | 20                      | 58.4                               | -2.7                       | 70       | 3     | 34      | 29                       | 0.81                  | 2.11   | 0.73                       | 0                     | 2                                | 19                    | 5                      | 7                     | n.  | Weather Bureau.        |                    |
| Ken...                                | Chesterfield... | 144             | 19                      | 58.8                               | -2.4                       | 85       | 1     | 33      | 29                       | 0.31                  | -2.41  | 0.12                       | 0                     | 2                                | 19                    | 5                      | 7                     | n.  | W. R. Godfrey.         |                    |
| Ken...                                | Chesterfield... | 144             | 14                      |                                    |                            |          |       |         |                          | 0.37                  | -2.68  | 0.33                       | 0                     | 3                                | 21                    | 8                      | 2                     | nw. | Jno. H. Powe.          |                    |
| Ken...                                | Edgefield...    | 500             | 5                       | 60.8                               |                            | 88       | 5     | 30      | 29                       | 0.43                  | 0.28   |                            | 0                     | 3                                | 18                    | 6                      | 7                     | n.  | Wm. S. Middleton.      |                    |
| Ken...                                | Oconee...       | 850             | 16                      | 57.2                               | -5.9                       | 78       | 4     | 34      | 31                       | 1.58                  | -1.52  | 1.03                       | 0                     | 2                                | 19                    | 7                      | 4                     | n.  | Jno. N. Hook.          |                    |
| Ken...                                | Richland...     | 351             | 20                      | 61.4                               | -2.6                       | 84       | 5     | 35      | 30                       | 0.40                  | -2.45  | 0.30                       | 0                     | 3                                | 14                    | 12                     | 5                     | n.  | Central Office.        |                    |
| Ken...                                | Horry...        | 25              | 15                      | 61.5                               |                            | 86       | 1     | 35      | 29                       | 0.77                  | -1.82  | 0.32                       | 0                     | 4                                | 21                    | 2                      | 8                     | n.  | P. C. Quattlebaum.     |                    |
| Ken...                                | Darlington...   | 175             | 12                      |                                    |                            |          |       |         |                          |                       |        |                            | 0                     | 4                                | 21                    | 2                      | 8                     | n.  | D. C. McCall.          |                    |
| Ken...                                | Marion...       | 100             | 3                       | 60.2                               |                            | 89       | 7     | 33      | 35                       | 0.85                  |        | 0.74                       | 0                     | 2                                |                       |                        |                       |     | A. E. Rowell.          |                    |
| Ken...                                | Abbeville...    | 730             | 6                       |                                    |                            |          |       |         |                          |                       | 1.01   | -1.98                      | 1.01                  | 0                                | 1                     | 20                     | 3                     | 8   | se.                    | Rev. O. Y. Bonner. |
| Ken...                                | Bamberg...      | 127             | 14                      |                                    |                            |          |       |         |                          |                       | 1.00   | -1.67                      | 0.50                  | 0                                | 2                     | 26                     | 1                     | 4   | se.                    | Mrs. M. Thompson.  |
| Ken...                                | Florence...     | 106             | 15                      |                                    |                            |          |       |         |                          |                       |        |                            | 0                     | 2                                | 26                    | 1                      | 4                     | se. | H. B. McCall.          |                    |
| Ken...                                | Florence...     | 136             | 19                      | 61.6                               | -1.6                       | 86       | 20    | 35      | 29                       | 0.55                  | -2.36  | 0.27                       | 0                     | 4                                | 18                    | 6                      | 7                     | nw. | H. K. Gilbert.         |                    |
| Ken...                                | Georgetown...   | 12              | 14                      | 62.6                               | -2.6                       | 90       | 8     | 39      | 28                       | 0.80                  | -2.49  | 0.80                       | 0                     | 1                                | 24                    | 7                      | 0                     | ne. | Wm. Alden James.       |                    |
| Ken...                                | Greenville...   | 989             | 15                      | 55.7                               | -5.2                       | 80       | 4     | 31      | 15                       | 1.27                  | -1.50  | 0.62                       | 0                     | 3                                | 23                    | 3                      | 5                     | sw. | Mrs. S. A. Crittenden. |                    |
| Ken...                                | Greenville...   | 671             | 19                      | 59.6                               | -2.7                       | 81       | 4     | 34      | 29                       | 1.25                  | 1.53   | 1.25                       | 0                     | 1                                | 21                    | 0                      | 10                    | w.  | M. M. Calhoun.         |                    |
| Ken...                                | Greenville...   | 568             | 6                       | 62.1                               |                            | 85       | 5     | 37      | 15                       | 0.46                  | 0.56   |                            | 0                     | 2                                | 21                    | 4                      | 6                     | n.  | J. A. Weaver.          |                    |
| Ken...                                | Lancaster...    | 54              | 19                      | 62.4                               | -2.4                       | 85       | 5     | 36      | 29                       | 0.15                  | -2.13  | 0.05                       | 0                     | 5                                | 21                    | 3                      | 7                     | n.  | J. A. Scott.           |                    |
| Ken...                                | Williamsburg... | 54              | 13                      |                                    |                            |          |       |         |                          | 0.15                  | -2.51  | 0.05                       | 0                     | 5                                | 24                    | 1                      | 6                     | ne. | A. O. Matthews.        |                    |
| Ken...                                | Pickens...      | 900             | 13                      | 58.5                               | -1.5                       | 82       | 4     | 32      | 31                       | 1.32                  | -2.34  | 0.80                       | 0                     | 3                                | 18                    | 10                     | 3                     | se. | Jno. T. Boggs.         |                    |
| Ken...                                | Newberry...     | 630             | 14                      | 61.4                               | -3.6                       | 83       | 7     | 32      | 30                       | 0.62                  | -2.72  | 0.32                       | 0                     | 2                                | 23                    | 6                      | 2                     | w.  | John M. Sease, M. D.   |                    |
| Ken...                                | Newberry...     | 502             | 3                       | 60.9                               | -1.4                       | 85       | 7     | 32      | 29                       | 0.56                  | -2.87  | 0.11                       | 0                     | 2                                | 17                    | 8                      | 6                     | n.  | W. G. Peterson.        |                    |
| Ken...                                | Anderson...     | 873             | 2                       |                                    |                            |          |       |         |                          | 1.30                  | 0.60   |                            | 0                     | 3                                | 17                    | 7                      | 7                     | sw. | John M. Ward.          |                    |
| Ken...                                | Berkeley...     | 54              | 14                      |                                    |                            |          |       |         |                          |                       |        |                            | 0                     | 3                                | 17                    | 7                      | 7                     | sw. | E. P. Ravenel.         |                    |
| Ken...                                | Dorchester...   | 109             | 19                      | 62.8                               | 1.3                        | 86       | 9     | 35      | 23                       | 0.44                  | -1.97  | 0.14                       | 0                     | 4                                | 25                    | 0                      | 6                     | ... | G. T. Lewis.           |                    |
| Ken...                                | Orangeburg...   | 269             | 19                      | 62.8                               | -1.7                       | 82       | 9     | 30      | 28                       | 0.25                  | 0.23   | 0.25                       | 0                     | 1                                | 22                    | 0                      | 9                     | ... | J. S. Warnamaker.      |                    |
| Ken...                                | Orangeburg...   | 269             | 19                      | 62.8                               | -1.7                       | 82       | 9     | 30      | 28                       | 0.25                  | 0.23   | 0.25                       | 0                     | 1                                | 22                    | 0                      | 9                     | ... | Alvin Etheridge.       |                    |
| Ken...                                | Savannah...     | 536             | 6                       | 61.0                               |                            | 90       | 7     | 29      | 29                       | 0.35                  | 0.21   |                            | 0                     | 4                                | 21                    | 4                      | 6                     | ne. | E. W. Jeter.           |                    |
| Ken...                                | Union...        | 512             | 13                      | 59.4                               | -2.3                       | 83       | 4     | 31      | 29                       | 0.16                  | -2.50  | 1.08                       | 0                     | 3                                | 15                    | 10                     | 6                     | nw. | Weather Bureau.        |                    |
| Ken...                                | Chatham...      | 71              | 38                      | 65.6                               | -0.7                       | 88       | 4     | 31      | 29                       | 0.46                  | -3.09  | 0.45                       | 0                     | 3                                | 21                    | 5                      | 5                     | n.  | H. van Keuren.         |                    |
| Ken...                                | Williamsburg... | 62              | 12                      |                                    |                            |          |       |         |                          | 0.24                  | -4.07  | 0.20                       | 0                     | 2                                | 26                    | 0                      | 5                     | e.  | J. J. Lucas.           |                    |
| Ken...                                | Darlington...   | 192             | 16                      | 59.0                               | -2.8                       | 82       | 9     | 36      | 29                       | 0.48                  | -3.08  | 0.43                       | 0                     | 3                                | 23                    | 5                      | 3                     | ne. | F. P. Robinson.        |                    |
| Ken...                                | Spartanburg...  | 875             | 16                      | 59.4                               | -1.6                       | 87       | 4     | 32      | 15                       | 1.42                  | -1.93  | 0.53                       | 0                     | 3                                | 25                    | 0                      | 6                     | nw. | W. W. Anderson, M. D.  |                    |
| Ken...                                | Sumter...       | 500             | 30                      | 62.2                               | -1.3                       | 84       | 5     | 30      | 29                       | 0.87                  | -2.29  | 0.28                       | 0                     | 6                                | 11                    | 13                     | 6                     | sw. | Miss E. H. Gadsden.    |                    |
| Ken...                                | Dorchester...   | 75              | 10                      | 63.5                               | -2.5                       | 88       | 3     | 34      | 29                       | 0.97                  | -2.93  | 0.38                       | 0                     | 5                                | 12                    | 13                     | 6                     | sw. | C. A. Long.            |                    |
| Ken...                                | Edgefield...    | 620             | 14                      | 61.0                               | -5.0                       | 83       | 7     | 35      | 28                       | 0.68                  | 3.06   | 0.56                       | 0                     | 3                                | 23                    | 5                      | 3                     | e.  | Etzell Gaillard.       |                    |
| Ken...                                | Berkeley...     | 85              | 21                      | 61.5                               | -1.6                       | 86       | 7     | 31      | 29                       | 0.60                  | -2.64  | 0.27                       | 0                     | 4                                | 15                    | 12                     | 4                     | ne. | Miss Jessie Douthit.   |                    |
| Ken...                                | Oconee...       | 1061            | 16                      |                                    |                            |          |       |         |                          |                       |        |                            | 0                     | 4                                | 15                    | 12                     | 4                     | ne. | J. A. Westerberg.      |                    |
| Ken...                                | Colleton...     | 69              | 4                       | 64.8                               |                            | 91       | 7     | 33      | 29                       | 0.85                  | 0.46   |                            | 0                     | 5                                | 18                    | 9                      | 4                     | ne. | Weather Bureau.        |                    |
| Ken...                                | New Hanover...  | 52              | 38                      | 60.6                               | -2.7                       | 85       | 7     | 38      | 29                       | 0.27                  | 3.47   | 0.13                       | 0                     | 6                                | 20                    | 10                     | 1                     | ne. | John W. Seigler.       |                    |
| Ken...                                | Fairfield...    | 545             | 18                      | 61.1                               | -1.1                       | 85       | 5     | 35      | 29                       | 0.52                  | -2.06  | 0.52                       | 0                     | 1                                | 18                    | 13                     | 0                     | e.  | E. R. Rivers.          |                    |
| Ken...                                | York...         | 690             | 8                       | 58.7                               | -3.4                       | 79       | 4     | 34      | 33                       | 0.82                  | -2.36  | 0.62                       | 0                     | 2                                | 22                    | 7                      | 2                     | sw. | J. G. Hutson.          |                    |
| Ken...                                | Beaufort...     | 23              | 12                      | 60.2                               | -5.7                       | 84       | 4     | 31      | 29                       | 2.10                  | -1.62  | 1.50                       | 0                     | 3                                | 22                    | 5                      | 4                     | sw. | J. R. Schorb.          |                    |
| Ken...                                | York...         | 680             | 19                      | 61.2                               | -0.8                       | 84       | 4     | 35      | 29                       | 0.70                  | 3.08   | 0.60                       | 0                     | 2                                | 18                    | 9                      | 4                     | sw. | J. R. Schorb.          |                    |
| MEANS—highest, lowest and dates, etc. |                 |                 |                         | 61.2                               | -2.3                       | 91       | 7     | 28      | 29                       | 45                    | 0.73   | -2.40                      | 1.93                  | 0                                | 3                     | 19                     | 7                     | 5   | ne.                    |                    |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard.  
\* On other dates also a indicates 1 day missing, b, 2 days, etc. † The state of sky at 8 a. m. not used in averages.



LITATION.

[illegible]

\* At those stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Soudan and Mekele are from 1955.

The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively,



# TOTAL PRECIPITATION FOR OCTOBER, 1907.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, OCTOBER, 1907.

| STATIONS.         | Day of Month. |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total. |
|-------------------|---------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|                   | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |        |
| Aiken             |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.00   |
| Allendale         |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.76   |
| Anderson          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.14   |
| Augusta, Ga.      |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.52   |
| Barksdale         |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.52   |
| Batesburg         |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.06   |
| Beaufort          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.29   |
| Bennettsville     |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.50   |
| Blackville        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.49   |
| Blair             |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.58   |
| Bowman            |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.46   |
| Calhoun Falls     |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.43   |
| Camden (1)        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.90   |
| Camden (2)        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.53   |
| Catawba           |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.81   |
| Chapin            |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.34   |
| Charleston        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.37   |
| Charlotte, N. C.  |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.43   |
| Cheraw (1)        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.58   |
| Cheraw (2)        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.40   |
| Clark's Hill      |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.77   |
| Clemson College   |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.85   |
| Columbia          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.00   |
| Conway            |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.55   |
| Darlington        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.80   |
| Dillon            |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.27   |
| Due West          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.25   |
| Edisto            |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.56   |
| Edinburgh         |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.15   |
| Ferguson          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.15   |
| Florence          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.62   |
| Georgetown        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.27   |
| Greenville        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.52   |
| Greenwood         |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1.25   |
| Heath Spring      |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.53   |
| Kingstree (1)     |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.05   |
| Kingstree (2)     |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.05   |
| Liberty           |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.80   |
| Little Mountain   |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.32   |
| Newberry          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.30   |
| Pelzer            |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.41   |
| Pinopolis         |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.60   |
| St. George        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.26   |
| St. Matthews      |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.10   |
| Saluda            |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.44   |
| Santee            |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.25   |
| Savannah, Ga.     |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.35   |
| Smith Mills       |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.67   |
| Society Hill      |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.41   |
| Spartanburg       |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.04   |
| Stateburg         |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.43   |
| Summerville       |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.53   |
| Trenton           |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.28   |
| Trial             |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.10   |
| Walhalla          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.16   |
| Walterboro        |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.40   |
| Wilmington, N. C. |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.23   |
| Winnboro          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.07   |
| Winthrop College  |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.27   |
| Yemassee          |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.06   |
| Yorkville         |               |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.52   |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR NOVEMBER, 1907.

SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF  
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

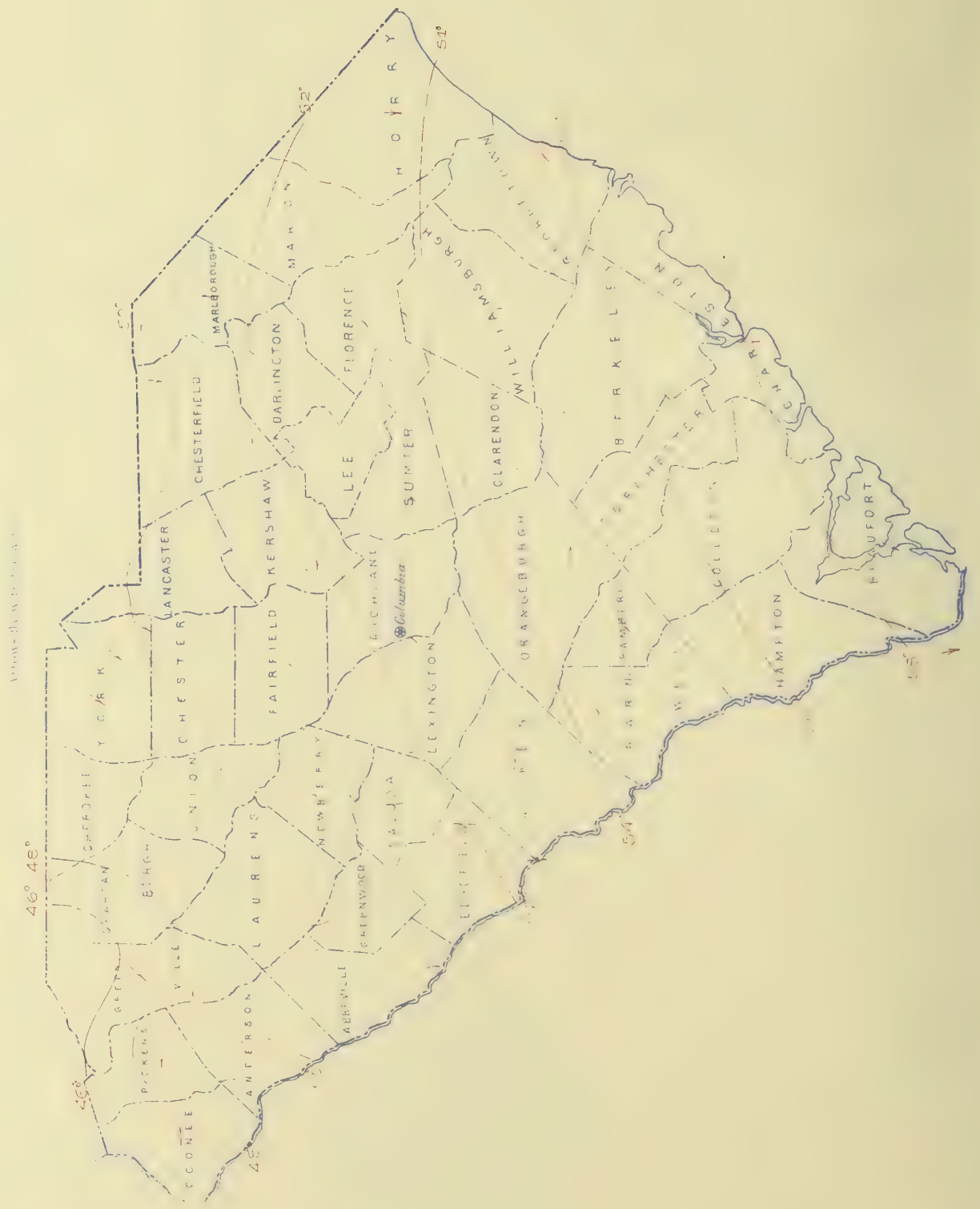
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

11-11-07

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR NOVEMBER, 1907.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. X. COLUMBIA, S. C., NOVEMBER, 1907. No. 11.

## GENERAL SUMMARY.

The month was colder than the average in all portions of the State. On the immediate coast the monthly mean temperature was but slightly below the normal; the departures from the normal increased regularly to about  $5^{\circ}$  in the extreme northwestern portion. There were two unusually warm periods. During the first period, from the 7th to the 9th, the highest temperatures for the month were recorded at nearly all the stations in the western and central portions, while in the coast regions the highest temperatures occurred from the 21st to the 23d. The greatest positive departures from the normal occurred during this period. The coldest portion of the month was the middle of the second decade when freezing temperatures and killing frosts occurred in all portions of the State and thin ice was recorded to within a few miles of the coast. The extreme southern portion of the State averaged nearly  $12^{\circ}$  warmer than the extreme northwestern or mountain portion.

The precipitation was well distributed thruout the month into four general rainy periods. During the first period, at the beginning of the month, and the second period, at the beginning of the second decade, the rainfall was light in all parts of the State. The longest rainy spell began on the 18th and ended on the 24th, with heavy rainfall in the central and western counties, causing high water in all the rivers of those sections and floods in the Wateree river and its confluent branches. During the fourth period, near the close of the month, the rainfall was moderately heavy in all parts of the State. The rainfall for the month was deficient in the coast regions; it was almost normal in the central counties, and was in excess of the average in the western counties. With the exception of a trace of sleet on the 12th and a trace of snow on the 18th, the precipitation for the month was all in the form of rain.

The sunshine was about normal during the first two decades, but there was a general excess of cloudiness during the third decade.

## TEMPERATURE.

The mean temperature was  $52.2^{\circ}$  which is  $1.9^{\circ}$  below the normal. The highest local mean was  $58.0^{\circ}$  at Charleston, the lowest was  $45.0^{\circ}$  at Greenville. The monthly extremes of temperature were  $87^{\circ}$  at Anderson on the 5th, and  $24^{\circ}$  at Dillon on the 14th and at Saluda on the 15th, making the State range  $63^{\circ}$ . The greatest local monthly range was  $60^{\circ}$  at Anderson, the least was  $40^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $62.7^{\circ}$ , and of the daily minimum temperatures was  $41.7^{\circ}$ , making the average daily range  $21.0^{\circ}$ .

## PRECIPITATION.

The average precipitation was 4.13 inches, which is 1.32 inch above the normal. The greatest local monthly amount was 8.25 inches at Greenwood, the least was 1.22 inches at Charleston. The greatest 24-hour fall was 2.55 inches at Greenwood on the 21st-22d. The average number of days with rain was 10, ranging from 5 at Georgetown to 14 at Calhoun Falls and at Little Mountain.

EXCESSIVE PRECIPITATION.—At Greenwood on the 21st-22d, 2.55 inches in 24 hours.

## WIND.

The prevailing direction of the wind was from the northeast at 16 stations, from the north at 11 stations, from the east at 6 stations, from the northwest at 5 stations, from the west at 4 stations, and from the south and the southwest at 3 stations each.

HIGH WINDS.—High winds were reported from Beaufort, Bowman, Charleston, Cheraw, Clarks Hill, Newberry and Saluda on the 6th; at Camden and Columbia on the 2d, 6th; at Spartanburg on the 7th; at Trial on the 6th, 7th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 12, of partly cloudy days was 7, and of cloudy days was 11.

## MISCELLANEOUS PHENOMENA.

SNOW.—A trace of snow was recorded at Greenville on the 18th.

SLEET.—Sleet was recorded at Greenville and Liberty on the 12th; at Summerville on the 13th.

LUNAR HALOS.—Lunar halos occurred at Blackville on the 9th; at Charleston on the 21st; at Winthrop College on the 16th, 20th.

SOLAR HALOS.—Solar halos occurred at Beaufort on the 25th; at Camden on the 17th; at Charleston on the 5th, 17th, 23d.

DENSE FOGS.—Dense fogs of one hour, or longer duration occurred at Beaufort on the 21st, 22d, 23d; at Blackville, Winthrop College on the 22d; at Camden on the 18th, 23d; at Charleston on the 21st, 22d; at Columbia on the 10th, 11th, 25th; at Georgetown on the 22d, 23d; at Liberty on the 13th, 19th; at Stateburg on the 6th, 18th, 26th; at Trial on the 11th, 23d, 24th, 25th, 26th, 27th.

THUNDERSTORMS.—Thunderstorms occurred on five days and were recorded at 9 out of the 46 stations; on the 9th in the northwestern counties and on the 21st, 22d, 23d, in the north central counties.

KILLING FROSTS.—The first killing frost of the season was recorded at Saluda and Spartanburg on the 4th; at Bennettsville on the 8th; at Blackville, Georgetown, Winnsboro on the 13th; at Aiken, Allendale, Anderson, Batesburg, Beaufort, Blairs, Bowman, Calhoun Falls, Camden, Chappels, Charleston, Clarks Hill, Clemson College, Conway, Dillon, Edisto, Effingham, Florence, Greenville, Liberty, Little Mountain, Pelzer, Pinopolis, St. George, St. Matthews, Smiths Mills, Society Hill, Summerville, Walhalla, Walterboro, Winthrop College, Yorkville on the 14th.



BAROMETER AND WIND TABLE FOR NOVEMBER, 1907.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.12      | 30.38    | 1     | 29.80   | 6     | 4.123           | 5.7             | 34                | W.         | 6     |
| Charleston.       | 30.10      | 30.35    | 1     | 29.75   | 6     | 7.548           | 10.5            | 35                | W.         | 6     |
| Charlotte, N. C.  | 30.12      | 30.46    | 1     | 29.72   | 6     | 4.907           | 6.8             | 28                | W.         | 6     |
| Columbia, Ga.     | 30.12      | 30.41    | 1     | 29.76   | 6     | 4.755           | 6.6             | 28                | sw.        | 2     |
| Savannah, Ga.     | 30.12      | 30.33    | 1     | 29.80   | 6     | 5.192           | 7.2             | 30                | W.         | 6     |
| Wilmington, N. C. | 30.11      | 30.41    | 1     | 29.69   | 6     | 5.554           | 7.7             | 26                | nw.        | 24    |
| Averages.         | 30.12      | 30.46    | 1     | 29.69   | 6     | 5.346           | 7.4             | 35                | W.         | 6     |

RIVER GAGE READINGS, NOVEMBER, 1907.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 2.3   | 10.4     | 24    | 0.3     | 1     |
| Calhoun Falls    | 3.5   | 7.0      | 22    | 2.7     | *8    |
| Camden           | 7.9   | 25.0     | 25    | 3.4     | 18    |
| Catawba          | 3.0   | 9.6      | 24    | 1.6     | 17    |
| Chappells        | 4.8   | 15.8     | 24    | 2.0     | *10   |
| Cheraw           | 5.4   | 24.7     | 25    | 1.8     | *1    |
| Columbia         | 2.4   | 11.5     | 25    | 0.0     | *3    |
| Edisto           | 2.6   | 3.9      | 30    | 1.3     | 1     |
| Effingham        | 3.7   | 5.5      | 30    | 2.8     | *1    |
| Kingstree        | 1.6   | 3.4      | *29   | 0.4     | *8    |
| Mt. Holly, N. C. | 2.3   | 7.0      | 24    | 1.8     | *1    |
| Pelzer           | 3.0   | 5.7      | 25    | 2.6     | *5    |
| Rimini           | 6.6   | 14.7     | 29    | 3.0     | 20    |
| Smith Mills      | 3.5   | 11.1     | 30    | 1.3     | *1    |

\* On other dates also.

## REMARKS BY OBSERVERS.

BEAUFORT.—The deficiency in precipitation since January 1st is 5.43 inches. — S. M. Benton. BOWMAN.—The month was noteworthy for an unusual number of killing frosts and for several days with unseasonably cold weather. — B. O. Evans. GREENVILLE.—Tho some ice formed on the 3d, vegetation was not killed until the 14th when thick ice formed. There was a slight fall of sleet on the 12th and a light fall of snow on the 18th, the latter melting as it fell.—Mrs. S. A. Crittenden. LIBERTY.—The entire month was wet and hindered farmwork.—Jno. T. Boggs. SANTUC.—The month was very wet, 7.06 inches of precipitation having fallen, and this is the heaviest November rainfall in the last 14 years; the month was also unusually cool.—E. W. Jeter. SUMMERVILLE.—The mean relative humidity for the month was 81 per cent. High south-westerly winds prevailed on the 6th; frost on the 8th, and sleet fell on the 13th. The first ice of the season was noted on the 14th, as well as a killing frost that covered everything with a heavy deposit, and giving the appearance of a light snowfall.—Miss E. H. Gadsden. STATEBURG.—The

frost of the 16th was only killing in places on high hills and on elevated lands generally tho killing on low lands where killing frosts had already occurred in October.—W. W. Anderson, M. D. TRENTON.—The deficiency in precipitation since January 1st is 13.51 inches for the 11 months ending November 30th.—C. A. Long.

## CLIMATOLOGY OF TRENTON, S. C.

## Temperature.

| Year  | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|
| 1893. |      |      |      | 70    | 72   | 78   | 84   | 79   | 78    | 68   | 56   | 49   | 68   |
| 1894. | 48   | 50   | 61   | 65    | 73   | 78   | 78   | 79   | 76    | 65   | 54   | 51   | 6    |
| 1895. | 47   | 38   | 55   | 63    | 70   | 80   | 80   | 80   | 78    | 63   | 56   | 48   | 6    |
| 1896. | 45   | 50   | 54   | 60    | 78   | 79   | 81   | 82   | 80    | 65   | 62   | 46   | 6    |
| 1897. | 45   | 52   | 58   | 64    | 72   | 81   | 80   | 79   | 75    | 67   | 58   | 50   | 6    |
| 1898. | 52   | 48   | 62   | 60    | 75   | 81   | 80   | 79   | 76    | 65   | 53   | 48   | 6    |
| 1899. | 48   | 46   | 57   | 62    | 75   | 81   | 82   | 82   | 74    | 66   | 57   | 47   | 6    |
| 1900. | 47   | 46   | 53   | 65    | 72   | 78   | 82   | 84   | 79    | 69   | 58   | 48   | 6    |
| 1901. | 48   | 45   | 57   | 58    | 74   | 78   | 82   | 79   | 74    | 64   | 51   | 47   | 6    |
| 1902. | 42   | 44   | 54   | 61    | 75   | 79   | 82   | 79   | 72    | 64   | 60   | 47   | 6    |
| 1903. | 44   | 50   | 61   | 61    | 71   | 75   | 81   | 81   | 73    | 62   | 52   | 41   | 6    |
| 1904. | 49   | 48   | 57   | 60    | 71   | 78   | 80   | 78   | 75    | 63   | 53   | 46   | 6    |
| 1905. | 41   | 38   | 58   | 63    | 74   | 79   | 81   | 78   | 76    | 65   | 55   | 45   | 6    |
| 1906. | 47   | 47   | 51   | 64    | 69   | 79   | 77   | 80   | 77    | 60   | 53   | 49   | 6    |
| M's   | 45.8 | 45.9 | 56.8 | 63.2  | 73.0 | 78.7 | 80.8 | 79.9 | 75.9  | 64.7 | 55.5 | 47.1 | 63.  |

## Precipitation.

| Year  | Jan. | Feb.  | Mar. | April | May  | June | July  | Aug.  | Sept. | Oct. | Nov. | Dec. | Year  |
|-------|------|-------|------|-------|------|------|-------|-------|-------|------|------|------|-------|
| 1893. |      |       |      |       | 4.40 | 7.26 | 6.75  | ..... | 4.14  | 5.29 | 1.85 | 2.98 | ..... |
| 1894. | 2.37 | 6.61  | 2.32 | 2.42  | 1.20 | 4.54 | 9.50  | 7.60  | 5.80  | 6.31 | 2.77 | 3.37 | 54.8  |
| 1895. | 8.28 | 3.16  | 7.64 | 6.37  | 5.62 | 2.34 | 4.88  | 11.49 | 0.29  | 1.14 | 2.18 | 3.96 | 57.3  |
| 1896. | 3.62 | 8.67  | 2.29 | 1.99  | 1.82 | 3.50 | 8.83  | 2.94  | 3.60  | 0.84 | 3.08 | 3.31 | 44.45 |
| 1897. | 3.59 | 9.05  | 4.08 | 3.32  | 2.80 | 2.79 | 6.97  | 9.93  | 3.28  | 2.18 | 1.58 | 1.54 | 51.1  |
| 1898. | 2.10 | 0.52  | 5.38 | 5.64  | 0.59 | 2.29 | 11.37 | 6.32  | 5.58  | 4.18 | 5.23 | 2.28 | 51.48 |
| 1899. | 5.45 | 12.30 | 5.31 | 1.53  | 1.26 | 4.80 | 1.58  | 6.55  | 1.77  | 7.13 | 2.59 | 3.04 | 53.3  |
| 1900. | 2.00 | 9.74  | 3.66 | 5.04  | 1.74 | 4.15 | 4.08  | 2.38  | 2.17  | 2.84 | 3.85 | 6.18 | 47.8  |
| 1901. | 3.86 | 3.47  | 4.27 | 6.73  | 5.88 | 7.22 | 3.33  | 8.01  | 7.25  | 2.86 | 1.12 | 5.67 | 59.67 |
| 1902. | 1.40 | 6.39  | 7.19 | 2.58  | 1.62 | 8.11 | 3.53  | 5.08  | 2.32  | 4.75 | 4.05 | 4.01 | 51.6  |
| 1903. | 3.09 | 9.66  | 7.57 | 2.59  | 2.47 | 6.12 | 1.81  | 5.44  | 3.30  | 2.30 | 1.60 | 2.37 | 48.3  |
| 1904. | 2.69 | 2.97  | 2.89 | 0.83  | 2.17 | 3.32 | 4.71  | 8.30  | 0.68  | 0.19 | 2.39 | 4.26 | 35.4  |
| 1905. | 1.75 | 6.37  | 1.29 | 4.20  | 4.10 | 1.51 | 5.79  | 4.01  | 0.41  | 1.71 | 1.83 | 8.63 | 41.6  |
| 1906. | 5.11 | 1.78  | 5.52 | 1.57  | 3.24 | 8.87 | 14.76 | 6.89  | 4.72  | 1.64 | 1.04 | 3.64 | 58.78 |
| M's   | 3.48 | 6.36  | 4.57 | 3.45  | 2.78 | 4.77 | 6.28  | 6.53  | 3.24  | 3.10 | 2.55 | 3.95 | 51.06 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 52                    | 1898  | 40                   | 1904  | 8.28              | 1895  | 1.40           | 1905  |
| February  | 52                    | 1897  | 38                   | *1905 | 12.30             | 1899  | 0.52           | 1898  |
| March     | 62                    | 1898  | 51                   | 1906  | 7.64              | 1895  | 1.29           | 1905  |
| April     | 70                    | 1897  | 58                   | 1901  | 6.73              | 1901  | 0.83           | 1904  |
| May       | 78                    | 1896  | 69                   | 1906  | 5.88              | 1901  | 0.59           | 1898  |
| June      | 81                    | *1897 | 75                   | 1903  | 8.87              | 1906  | 1.51           | 1905  |
| July      | 84                    | 1893  | 77                   | 1906  | 14.76             | 1906  | 1.58           | 1899  |
| August    | 84                    | 1900  | 78                   | *1904 | 11.49             | 1895  | 2.38           | 1906  |
| September | 80                    | 1896  | 72                   | 1902  | 7.25              | 1901  | 0.29           | 1895  |
| October   | 69                    | 1900  | 60                   | 1906  | 7.13              | 1899  | 0.19           | 1904  |
| November  | 62                    | 1896  | 51                   | 1901  | 5.23              | 1898  | 1.04           | 1906  |
| December  | 51                    | 1894  | 41                   | 1903  | 8.63              | 1905  | 1.54           | 1897  |

\* And other years.

## COMPARATIVE NOVEMBER DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |                |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |     |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|----------------|----------------|--------------------------|----------------------------------|-----|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                | Least Monthly. |                          |                                  |     |
|           |              |                  |                  |          |          |                | Amount.           | Place.         | Amount.        | Place.                   |                                  |     |
| 1894..... | 52.3         | 62.7             | 42.3             | 83       | 17       | 2.02           | 4.20              | Pinopolis.     | 0.61           | Spartanburg.             | 4                                | nw. |
| 1895..... | 54.4         | 64.7             | 41.1             | 88       | 21       | 2.35           | 4.46              | Pinopolis.     | 0.40           | Shaw's Fork.             | 6                                | ne. |
| 1896..... | 59.1         | 70.0             | 48.6             | 90       | 26       | 4.00           | 9.84              | Greenville.    | 1.12           | St. Matthews.            | 7                                | ne. |
| 1897..... | 55.3         | 66.9             | 43.7             | 88       | 23       | 1.99           | 5.05              | Gaffney.       | 0.26           | Gillisonville.           | 5                                | sw. |
| 1898..... | 51.0         | 61.1             | 41.0             | 82       | 14       | 4.72           | 6.41              | Gillisonville. | 2.58           | Yorkville.               | 10                               | ne. |
| 1899..... | 55.0         | 65.8             | 41.1             | 86       | 22       | 2.41           | 8.10              | Georgetown.    | 0.72           | Florence.                | 5                                | ne. |
| 1900..... | 55.6         | 66.6             | 44.6             | 92       | 22       | 3.32           | 5.45              | Spartanburg.   | 1.50           | Georgetown.              | 6                                | sw. |
| 1901..... | 48.2         | 60.2             | 36.2             | 85       | 17       | 1.01           | 3.10              | Georgetown.    | 0.36           | Winnabow.                | 5                                | n.  |
| 1902..... | 59.2         | 69.5             | 48.8             | 89       | 22       | 3.80           | 7.01              | Greenville.    | 1.70           | Calhoun Falls.           | 6                                | ne. |
| 1903..... | 50.9         | 61.5             | 40.3             | 86       | 10       | 1.10           | 3.17              | Batesburg.     | T.             | Georgetown.              | 5                                | n.  |
| 1904..... | 51.6         | 63.5             | 39.7             | 80       | 22       | 2.78           | 4.39              | Yorkville.     | 1.20           | Conway.                  | 6                                | w.  |
| 1905..... | 54.5         | 66.7             | 42.3             | 90       | 21       | 1.31           | 2.41              | Liberty.       | 0.00           | St. George.              | 3                                | sw. |
| 1906..... | 53.8         | 66.7             | 41.0             | 89       | 20       | 0.96           | 2.36              | Walhalla.      | T.             | Winnabow.                | 3                                | ne. |
| 1907..... | 52.2         | 62.7             | 41.7             | 87       | 24       | 4.13           | 8.25              | Greenwood.     | 1.22           | Charleston.              | 10                               | ne. |



CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER 1907.

| STATIONS.                             | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—in inches. |        |                                 |                       |        |          | Sky.            |                 |                 |                 |                 |                        | Observers. |
|---------------------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|--------------------------|--------|---------------------------------|-----------------------|--------|----------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------------|------------|
|                                       |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily fall.     | Total. | Deposited in the last 24 hours. | Observed in 24 hours. | Least. | Wettest. | Number of days. | Number of days. | Number of days. | Number of days. | Number of days. | Number of days.        |            |
| Aiken                                 | Barnwell     | 565             | 23                      | 53.6                               | -1.3                       | 76       | 9     | 26      | 14    | 33                       | 1.38   | +1.61                           | 1.20                  | 0      | 9        | 16              | 5               | 9               | 6               | 6               | C. F. McGahan, M. D.   |            |
| Allendale                             | Anderson     | 186             | 10                      | 51.1                               | -1.1                       | 76       | 21    | 12      | 14    | 14                       | 2.38   | -0.33                           | 1.00                  | 0      | 11       | 16              | 0               | 11              | 15              | 15              | A. R. Hiers.           |            |
| Anderson                              | Richmond     | 764             | 6                       | 51.2                               | +1.1                       | 87       | 5     | 27      | 13    | 52                       | 6.03   | +3.78                           | 1.02                  | 0      | 11       | 14              | 1               | 11              | 15              | 15              | H. H. Russell.         |            |
| Augusta, Ga.                          | Laurens      | 134             | 36                      | 53.3                               | -0.6                       | 70       | 9     | 29      | 15    | 30                       | 3.84   | +0.92                           | 1.10                  | 0      | 11       | 13              | 6               | 11              | 11              | 11              | Weather Bureau         |            |
| Barksdale                             | Lexington    | 680             | 6                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | J. T. Garrett.         |            |
| Batesburg                             | Beaufort     | 656             | 19                      | 50.9                               | -3.2                       | 76       | 9     | 27      | *11   | 30                       | 1.92   | -1.33                           | 0.78                  | 0      | 11       | 15              | 5               | 16              | 8               | 8               | E. J. Hite.            |            |
| Beaufort                              | Marlboro     | 20              | 21                      | 57.6                               | -1.7                       | 79       | 22    | 32      | 14    | 27                       | 1.92   | -0.33                           | 0.96                  | 0      | 9        | 11              | 9               | 10              | 10              | 10              | S. M. Benton.          |            |
| Bennettsville                         | Barnwell     | 151             | 6                       | 52.7                               | ...                        | 80       | 9     | 27      | *14   | 40                       | 3.67   | ...                             | 1.03                  | 0      | 9        | 16              | 6               | 8               | 8               | 8               | C. S. McCall.          |            |
| Blackville                            | Fairfield    | 206             | 19                      | 54.3                               | 1.4                        | 79       | *7    | 29      | 13    | 37                       | 3.70   | +1.62                           | 0.95                  | 0      | 9        | 14              | 3               | 13              | 13              | 13              | Miss M. E. Lange.      |            |
| Blair                                 | Orangeburg   | 293             | 2                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | T. S. McMeekin.        |            |
| Bowman                                | Abbeville    | 160             | 6                       | 53.7                               | ...                        | 79       | 21    | 28      | *14   | 50                       | 2.76   | ...                             | 1.86                  | 0      | 13       | 12              | 8               | 10              | 10              | 10              | W. B. Evans.           |            |
| Calhoun Falls                         | Kershaw      | 508             | 14                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | P. J. Pfeiffer.        |            |
| Camden (1)                            | Kershaw      | ...             | 2                       | 50.4                               | ...                        | 75       | 9     | 25      | 16    | 37                       | 3.96   | +2.65                           | 0.67                  | 0      | 14       | 14              | 0               | 16              | 16              | 16              | J. B. McKel.           |            |
| Camden (2)                            | Kershaw      | 222             | 41                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | W. C. Brown.           |            |
| Catawba                               | York         | ...             | 2                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | James Y. Brice.        |            |
| Chapin                                | Newberry     | 402             | 2                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | W. R. Zimmerman.       |            |
| Charleston                            | Charleston   | 48              | 38                      | 58.0                               | -0.1                       | 78       | 21    | 38      | 14    | 26                       | 1.22   | -1.65                           | 0.73                  | 0      | 10       | 12              | 2               | 16              | 16              | 16              | Weather Bureau         |            |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 29                      | 48.4                               | -2.0                       | 73       | 9     | 30      | 30    | 32                       | 4.61   | +1.75                           | 1.28                  | 0      | 11       | 10              | 7               | 13              | 13              | 13              | Weather Bureau         |            |
| Cheraw (1)                            | Chesterfield | 141             | 19                      | 49.6                               | -3.2                       | 78       | 9     | 26      | 14    | 43                       | 4.68   | +2.48                           | 0.91                  | 0      | 11       | 11              | 6               | 13              | 13              | 13              | W. R. Godfrey.         |            |
| Cheraw (2)                            | ...          | 144             | 14                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | Jno. H. Powe.          |            |
| Clarks Hill                           | Edgefield    | 500             | 5                       | 51.5                               | ...                        | 76       | *9    | 26      | 15    | 32                       | 4.40   | ...                             | 1.30                  | 0      | 8        | 8               | 7               | 15              | 15              | 15              | Wm. S. Middleton.      |            |
| Clemson College                       | Oconee       | 850             | 16                      | 49.0                               | -2.2                       | 71       | 9     | 26      | 14    | 31                       | 4.85   | +1.64                           | 1.33                  | 0      | 10       | 16              | 3               | 11              | 11              | 11              | Jno. N. Hook.          |            |
| Columbia                              | Richland     | 351             | 20                      | 52.4                               | -1.4                       | 75       | 9     | 30      | 14    | 31                       | 4.04   | +1.81                           | 1.11                  | 0      | 10       | 11              | 8               | 11              | 11              | 11              | Central Office.        |            |
| Conway                                | Horry        | 25              | 15                      | 53.5                               | ...                        | 78       | 22    | 28      | 14    | 44                       | 2.78   | +0.02                           | 1.38                  | 0      | 9        | 10              | 2               | 18              | 18              | 18              | P. C. Quattlebaum.     |            |
| Darlington                            | Darlington   | 175             | 12                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | D. C. McCall.          |            |
| Dillon                                | Marion       | 100             | 3                       | 52.0                               | ...                        | 78       | *9    | 24      | 14    | 36                       | 2.98   | ...                             | 0.95                  | 0      | 12       | ...             | ...             | ...             | ...             | ...             | A. E. Rowell.          |            |
| Dur West                              | Abbeville    | 730             | 6                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | Rev. O. Y. Bonner.     |            |
| Edisto                                | Bamberg      | 127             | 14                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | Mrs. M. Thompson.      |            |
| Edinburg                              | Florence     | 106             | 15                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | H. B. McCall.          |            |
| Ferguson                              | ...          | ...             | ...                     | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | ...                    | ...        |
| Florence                              | Florence     | 136             | 19                      | 53.2                               | -2.1                       | 79       | 10    | 28      | 14    | 45                       | 3.06   | +0.61                           | 0.78                  | 0      | 8        | 16              | 1               | 13              | 13              | 13              | H. K. Gilbert.         |            |
| Georgetown                            | Georgetown   | 12              | 14                      | 56.0                               | -0.7                       | 78       | 9     | 32      | 13    | 26                       | 2.16   | -0.34                           | 0.95                  | 0      | 5        | 15              | 5               | 16              | 16              | 16              | Wm. Alden James.       |            |
| Greenville                            | Greenville   | 989             | 15                      | 45.0                               | -5.5                       | 72       | 9     | 26      | *15   | 35                       | 6.05   | +2.15                           | 1.25                  | 0      | 12       | 14              | 1               | 15              | 15              | 15              | Mrs. S. A. Crittenden. |            |
| Greenwood                             | Greenwood    | 671             | 19                      | 48.4                               | -4.0                       | 75       | 9     | 28      | *14   | 32                       | 8.25   | +5.21                           | 2.55                  | 0      | 11       | 16              | 0               | 14              | 14              | 14              | M. M. Calhoun.         |            |
| Heath Spring                          | Lancaster    | 568             | 6                       | 50.3                               | ...                        | 72       | 9     | 26      | 14    | 24                       | 4.83   | ...                             | 1.45                  | 0      | 9        | 12              | 10              | 8               | 8               | 8               | J. A. Weimer.          |            |
| Kingsree (1)                          | Williamsburg | 54              | 19                      | 55.4                               | -0.1                       | 79       | 22    | 28      | 27    | 38                       | 2.42   | -0.41                           | 1.20                  | 0      | 11       | 14              | 2               | 14              | 14              | 14              | J. A. Scott.           |            |
| Kingsree (2)                          | ...          | 54              | 13                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | A. O. Matthews.        |            |
| Liberty                               | Pickens      | 900             | 13                      | 49.0                               | -11.3                      | 74       | 9     | 25      | 14    | 34                       | 6.58   | +3.65                           | 2.10                  | 0      | 10       | 15              | 5               | 16              | 16              | 16              | Jno. T. Boggs.         |            |
| Little Mountain                       | Newberry     | 630             | 14                      | 51.2                               | -4.3                       | 78       | 9     | 30      | *14   | 30                       | 4.55   | +1.84                           | 0.88                  | 0      | 14       | 14              | 7               | 9               | 9               | 9               | John M. Sease, M. D.   |            |
| Newberry                              | Newberry     | 502             | 3                       | 50.2                               | -2.9                       | 77       | 9     | 26      | 14    | 33                       | 5.59   | +2.27                           | 1.95                  | 0      | 13       | 12              | 5               | 13              | 13              | 13              | W. G. Peterson.        |            |
| Pelzer                                | Anderson     | 873             | 2                       | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | John M. Ward.          |            |
| Pinopolis                             | Berkeley     | 54              | 14                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | E. P. Ravenel.         |            |
| St. George                            | Dorchester   | 109             | 19                      | 55.9                               | +0.1                       | 79       | 22    | 30      | 27    | 33                       | 1.74   | -0.72                           | 0.68                  | 0      | 8        | 16              | 0               | 14              | 14              | 14              | G. T. Lewis.           |            |
| St. Matthews                          | Orangeburg   | 269             | 19                      | 52.1                               | -3.7                       | 75       | 9     | 31      | 14    | 30                       | 5.13   | +3.26                           | 1.20                  | 0      | 12       | 18              | 0               | 12              | 12              | 12              | J. S. Warramaker.      |            |
| Saluda                                | Saluda       | 536             | 6                       | 51.8                               | ...                        | 79       | 9     | 24      | 15    | 43                       | 4.44   | ...                             | 0.81                  | 0      | 12       | 14              | 3               | 13              | 13              | 13              | Alvin Etheridge.       |            |
| Santee                                | Union        | 512             | 13                      | 49.0                               | -2.5                       | 75       | 9     | 26      | 14    | 36                       | 7.06   | +3.80                           | 2.34                  | 0      | 9        | 11              | 9               | 10              | 10              | 10              | E. W. Jeter.           |            |
| Savannah, Ga.                         | Chatham      | 71              | 38                      | 58.2                               | +0.5                       | 79       | 21    | 35      | 14    | 28                       | 1.56   | -0.81                           | 1.01                  | 0      | 9        | 9               | 5               | 16              | 16              | 16              | Weather Bureau.        |            |
| Smiths Mills                          | Williamsburg | 62              | 12                      | ...                                | ...                        | ...      | ...   | ...     | ...   | ...                      | ...    | ...                             | ...                   | ...    | ...      | ...             | ...             | ...             | ...             | ...             | H. van Keuren.         |            |
| Society Hill                          | Darlington   | 192             | 16                      | 50.5                               | -2.6                       | 75       | 9     | 28      | 13    | 28                       | 3.84   | +1.30                           | 0.99                  | 0      | 8        | 13              | 4               | 13              | 13              | 13              | J. J. Lucas.           |            |
| Spartanburg                           | Spartanburg  | 875             | 16                      | 48.8                               | -2.9                       | 76       | 9     | 25      | 14    | 40                       | 6.44   | +3.29                           | 1.23                  | 0      | 13       | 15              | 0               | 15              | 15              | 15              | E. P. Robinson.        |            |
| Stateburg                             | Sumter       | 500             | 30                      | 54.2                               | 0                          | 75       | 9     | 33      | 16    | 27                       | 4.44   | +2.36                           | 0.93                  | 0      | 10       | 9               | 8               | 13              | 13              | 13              | W. W. Anderson, M. D.  |            |
| Summerville                           | Dorchester   | 75              | 10                      | 56.2                               | +0.1                       | 83       | 21    | 28      | 14    | 39                       | 2.12   | -0.98                           | 0.80                  | 0      | 10       | 5               | 15              | 10              | 10              | 10              | Miss E. H. Gadsden.    |            |
| Trenton                               | Edgefield    | 620             | 14                      | 51.6                               | -5.1                       | 75       | 9     | 30      | 14    | 31                       | 4.04   | +1.15                           | 1.16                  | 0      | 10       | 14              | 5               | 8               | 8               | 8               | C. A. Long.            |            |
| Triad                                 | Berkeley     | 85              | 21                      | 54.2                               | -1.7                       | 80       | 22    | 27      | 14    | 41                       | 2.13   | -0.44                           | 0.80                  | 0      | 7        | 12              | 10              | 8               | 8               | 8               | Elsell Gaillard.       |            |
| Wadwalla                              | Oconee       | 1061            | 16                      | 50.0                               | +0.4                       | 75       | *8    | 26      | 14    | 37                       | ...    | ...                             | 1.70                  | 0      | 6        | 12              | 4               | ...             | ...             | ...             | Miss Jessie Douthit.   |            |
| Walterboro                            | Colleton     | 69              | 4                       | 57.7                               | ...                        | 85       | 21    | 28      | 14    | 42                       | 1.55   | ...                             | 0.67                  | 0      | 10       | 12              | 9               | 9               | 9               | 9               | J. A. Westerberg.      |            |
| Wilmington, N. C.                     | New Hanover  | 52              | 38                      | 53.8                               | -0.3                       | 76       | 22    | 32      | 14    | 29                       | 2.49   | +0.04                           | 0.75                  | 0      | 11       | 10              | 9               | 11              | 11              | 11              | Weather Bureau.        |            |
| Winnsboro                             | Fairfield    | 545             | 18                      | 51.2                               | -2.3                       | 77       | 8     | 30      | *13   | 30                       | 2.68   | -0.32                           | 0.95                  | 0      | 6        | 15              | 8               | 7               | 7               | 7               | John W. Seigler.       |            |
| Winthrop College                      | York         | 690             | 8                       | 50.0                               | -3.3                       | 75       | 9     | 27      | 14    | 37                       | 5.86   | +2.87                           | 1.95                  | 0      | 9        | 17              | 5               | 8               | 8               | 8               | E. R. Rivers.          |            |
| Yemassee                              | Beaufort     | 23              | 12                      | 53.8                               | -3.3                       | 74       | 21    | 29      | 14    | 36                       | 1.61   | -0.93                           | 0.40                  | 0      | 9        | 10              | 2               | 12              | 12              | 12              | J. G. Hutson.          |            |
| Yorkville                             | York         | 680             | 19                      | 50.4                               | -2.7                       | 77       | 9     | 30      | *14   | 58                       | 5.52   | +2.54                           | 1.04                  | 0      | 9        | 11              | 8               | 11              | 11              | 11              | J. R. Schorb.          |            |
| MEANS—highest, lowest and dates, etc. |              |                 |                         | 52.2                               | -1.9                       | 87       | 5     | 24      | *14   | 52                       | 4.13   | +1.32                           | 2.55                  | T.     | 10       | 12              | 7               | 11              | 11              | 11              | ne.                    |            |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages. b Three days record of minimum temperatures missing.

ERRATA.

The following corrections should be made in the October, 1907, number of the Monthly Report: On page 77, at Conway the maximum and date 86 on the 4th, should be 87 on the 8th; at Saluda, the monthly mean temperature 61.0, should be 60.8; at St. Matthews, the monthly mean temperature 62.8, should be 60.4. On page 78, at Saluda, the minimum on the 10th, 62, should be 53 and the monthly mean minimum should be 47.1; at St. Matthews, the monthly mean minimum 55.2, should be 50.5.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING NOVEMBER, 1907.

| STATIONS. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Monthly mean. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-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| Max.      | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min.          | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. 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\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.

\* The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR NOVEMBER, 1907.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, NOVEMBER, 1907.

| STATIONS.         | Day of Month. |     |     |   |     |     |     |     |      |     |     |     |    |    |    |    |    |      |     |      |      |      |      |      |     |    |    |     |      |     |      | Total. |
|-------------------|---------------|-----|-----|---|-----|-----|-----|-----|------|-----|-----|-----|----|----|----|----|----|------|-----|------|------|------|------|------|-----|----|----|-----|------|-----|------|--------|
|                   | 1             | 2   | 3   | 4 | 5   | 6   | 7   | 8   | 9    | 10  | 11  | 12  | 13 | 14 | 15 | 16 | 17 | 18   | 19  | 20   | 21   | 22   | 23   | 24   | 25  | 26 | 27 | 28  | 29   | 30  | 31   |        |
| Aiken             | .50           |     |     |   |     |     |     |     | .30  |     | .30 |     |    |    |    |    |    | .50  |     |      | .40  | .30  | .50  | .30  |     |    |    |     | 1.20 |     | 4.30 |        |
| Allendale         |               |     |     |   |     |     |     |     | .60  |     | .40 |     |    |    |    |    |    | .20  |     |      |      |      | .30  | .15  |     |    |    |     | 1.00 | .10 | 2.75 |        |
| Anderson          | .69           |     |     |   |     |     |     | .08 | .66  |     | .23 |     |    |    |    |    |    | .82  |     | .05  | 1.01 | .68  | 1.02 | .04  |     |    |    |     | .75  |     | 6.03 |        |
| Augusta, Ga.      | .21           |     |     |   |     |     |     |     | .26  |     | .02 | .28 |    |    |    |    |    | T.   | .50 |      | .01  | .59  | .63  | .24  |     |    |    |     | .49  | .61 | 3.84 |        |
| Barksdale         |               |     |     |   |     |     |     |     |      |     |     |     |    |    |    |    |    |      |     |      |      |      |      |      |     |    |    |     |      |     |      |        |
| Batesburg         | .30           |     |     |   |     | T.  |     |     | T.   | .78 | .14 | .24 |    |    |    |    |    | .40  | .04 |      | .32  | .51  | .12  | .42  |     |    |    |     | .70  |     | 3.97 |        |
| Beaufort          | .02           | .06 |     |   |     |     |     |     | .07  | T.  | .10 | .20 |    |    |    |    |    | T.   | .33 |      |      |      | .14  | .04  |     |    |    |     | .96  |     | 1.92 |        |
| Bennettsville     | .45           |     |     |   |     | .02 |     |     | .28  | T.  | .32 |     |    |    |    |    |    | .32  |     |      | .21  | 1.03 | .44  |      |     |    |    | .60 |      |     | 3.67 |        |
| Blackville        | .15           |     |     |   |     |     |     |     | .71  |     | .40 |     |    |    |    |    |    | .35  |     |      | .18  | .40  | .42  |      |     |    |    | .95 | T.   |     | 3.70 |        |
| Blairs            | .30           |     |     |   |     |     |     |     | .20  | .20 | .30 | .30 |    |    |    |    |    | .76  | .20 |      | .30  | 1.80 | .40  | .60  |     |    |    |     | .70  | .20 | 6.26 |        |
| Bowman            | .22           |     |     |   |     |     |     |     | .19  |     | .64 |     |    |    |    |    |    | .38  | .12 | .08  | .04  | .17  | .28  |      |     |    |    |     | .61  |     | 2.76 |        |
| Calhoun Falls     | .12           | .22 |     |   |     |     |     |     | .26  | .08 | .22 | .36 |    |    |    |    |    | .42  | .35 |      | .92  | .97  | .69  | .48  |     |    |    |     | .56  | .32 | 5.97 |        |
| Camden (1)        | .46           |     |     |   |     | T.  |     |     | .45  | T.  | .45 |     |    |    |    |    |    | .29  |     |      | .08  | .72  | .89  |      |     |    |    | T.  | .62  |     | 3.96 |        |
| Camden (2)        | .40           | .08 |     |   |     |     |     |     | .50  | .04 | .32 |     |    |    |    |    |    | .14  | .16 |      |      | .50  | .16  | .08  |     |    |    |     | .62  | .04 | 3.64 |        |
| Catawba           | .30           |     |     |   |     |     |     |     | .50  |     | .02 |     |    |    |    |    |    | .50  |     |      | 2.30 | .40  | .48  | .90  |     |    |    |     | .70  |     | 6.10 |        |
| Chappells         | .03           |     |     |   |     |     |     |     | .07  | .12 |     |     |    |    |    |    |    | .74  | .12 |      | .54  | 1.40 | 1.04 | .94  |     |    |    |     | 1.01 |     | 6.01 |        |
| Charleston        | T.            | .07 |     |   | T.  |     |     |     | .05  | T.  | .03 | .04 |    |    |    |    |    | .17  |     |      | .07  |      | .01  | .05  |     |    |    |     | .01  | .64 | 1.22 |        |
| Charlotte, N. C   | T.            | .51 | T.  |   |     | .03 |     |     | .01  | .28 | T.  | .15 |    |    |    |    |    | .91  |     | .03  | .35  | 1.28 | 1.01 |      |     |    |    | T.  | .02  |     | 4.61 |        |
| Cheraw(1)         | .46           | .15 |     |   |     |     |     |     | .47  | .07 | .38 |     |    |    |    |    |    | .23  | .16 |      |      | .91  | .87  | .33  |     |    |    |     | .65  |     | 4.68 |        |
| Cheraw(2)         | .50           | .10 |     |   |     |     | .01 |     | .49  | .07 | .33 |     |    |    |    |    |    | .22  | .17 |      |      | .94  | .86  | .36  |     |    |    |     | .64  | .04 | 4.73 |        |
| Clark's Hill      | T.            |     |     |   |     |     |     |     | 1.20 |     | .30 |     |    |    |    |    |    | .48  |     |      | .45  | .40  | .60  |      |     |    |    | .32 | .55  |     | 4.10 |        |
| Clemson College   | .95           |     |     |   |     | .13 |     |     | .53  | .10 | .11 |     |    |    |    |    |    | .26  |     | 1.33 | .37  | .75  |      |      |     |    |    | .32 |      |     | 4.85 |        |
| Columbia          | .01           | .26 |     |   |     | T.  |     |     | .32  |     | .33 |     |    |    |    |    |    | .32  |     |      | .14  | 1.34 | 1.50 |      |     |    |    | .25 | .57  |     | 4.64 |        |
| Conway            | .07           | .12 | .15 |   |     |     |     |     | T.   | .15 | .52 | T.  |    |    |    |    |    | .08  | .24 |      |      | .11  |      |      |     |    |    |     | 1.38 | .03 | 2.78 |        |
| Darlington        |               |     |     |   |     |     |     |     |      |     |     |     |    |    |    |    |    |      |     |      |      |      |      |      |     |    |    |     |      |     |      |        |
| Dillon            | .30           |     |     |   |     | .01 |     |     | .15  | T.  | .65 | .08 |    |    |    |    |    | .24  | .11 |      | .20  | .04  | .24  |      |     |    |    | .01 | .95  |     | 2.98 |        |
| Due West          |               |     |     |   |     |     |     |     |      |     |     |     |    |    |    |    |    |      |     |      |      |      |      |      |     |    |    |     |      |     |      |        |
| Edisto            | .10           | .17 | .20 |   |     |     |     |     | .29  | .36 | .86 |     |    |    |    |    |    | .94  | .53 |      |      | .90  | 1.02 |      |     |    |    |     | 1.10 | .49 | 6.96 |        |
| Effingham         | .60           | .30 |     |   |     |     |     |     | .40  | .20 | .60 |     |    |    |    |    |    | .40  | .50 |      |      | .50  | .40  |      |     |    |    |     | .75  | .15 | 4.80 |        |
| Ferguson          |               |     |     |   |     |     |     |     |      |     |     |     |    |    |    |    |    |      |     |      |      |      |      |      |     |    |    |     |      |     |      |        |
| Florence          | .50           |     |     |   |     |     |     |     | .34  |     | .65 |     |    |    |    |    |    | .08  |     |      | .02  | .23  | .54  | .42  |     |    |    |     | .78  |     | 3.06 |        |
| Georgetown        | .50           |     |     |   |     |     |     |     | .25  |     |     |     |    |    |    |    |    | .32  |     |      |      | .14  |      |      |     |    |    |     | .95  |     | 2.16 |        |
| Greenville        | T.            | .90 | .15 |   |     | .10 |     |     | .11  | T.  | T.  | .60 |    |    |    |    |    | .61  | .16 |      | 1.25 | .38  | .60  | 1.02 |     |    |    | T.  | .17  |     | 6.05 |        |
| Greenwood         | .25           |     |     |   |     |     |     |     | .90  | .10 | .08 |     |    |    |    |    |    | .62  | .06 |      | 1.45 | 2.55 | .80  | .55  |     |    |    |     | .89  |     | 8.25 |        |
| Heath Spring      | .74           |     |     |   |     |     |     |     | .41  |     | .24 |     |    |    |    |    |    | .54  |     |      | .03  | 1.45 | .78  |      |     |    |    | .30 |      | .31 | 4.85 |        |
| Kingstree(1)      | .01           |     |     |   |     |     |     |     | .30  | .01 | .50 |     |    |    |    |    |    | .02  | .16 |      |      | .06  | .03  | .10  |     |    |    |     | 1.20 | .03 | 2.42 |        |
| Kingstree(2)      | T.            | .25 | .07 |   |     |     |     |     | .15  |     | .55 |     |    |    |    |    |    | .12  | .15 |      |      | .10  |      | .14  |     |    |    |     | 1.20 |     | 2.73 |        |
| Liberty           | .98           |     |     |   | .20 |     |     |     | T.   | .60 |     |     |    |    |    |    |    | .40  |     | 2.10 | .10  | .25  | 1.55 |      |     |    |    | T.  | .20  |     | 6.58 |        |
| Little Mountain   | .31           |     |     |   |     |     |     |     | .45  | .15 | .29 | .02 |    |    |    |    |    | .02  | .45 |      | .04  | .36  | .79  | .88  | .13 |    |    |     | .02  | .64 | 4.55 |        |
| Newberry          | .30           | .12 |     |   |     |     |     |     | .48  | .07 | .19 |     |    |    |    |    |    | .16  |     | .30  | 1.95 | .50  | .47  |      |     |    |    |     | .61  | .04 | 5.59 |        |
| Pelzer            | .74           |     |     |   |     | .10 |     |     | .20  | .30 | .04 | .20 |    |    |    |    |    | .60  | .10 |      | 1.00 | .68  | .50  | .72  |     |    |    |     | .55  |     | 5.73 |        |
| Pinopolis         |               |     |     |   |     |     |     |     |      |     |     |     |    |    |    |    |    |      |     |      |      |      |      |      |     |    |    |     |      |     |      |        |
| St. George        | .02           | .14 |     |   |     |     |     |     | .14  |     | .38 |     |    |    |    |    |    | .22  |     |      | .08  |      |      |      |     |    |    |     | .68  | .08 | 1.74 |        |
| St. Matthews      | .50           | .10 |     |   |     |     |     |     | .45  | .05 | .93 |     |    |    |    |    |    | .20  | .22 |      |      | .25  | 1.20 | .41  |     |    |    |     | 1.02 | .10 | 5.43 |        |
| Saluda            | .35           |     |     |   |     | T.  |     |     | .81  | .01 | .31 |     |    |    |    |    |    | .51  |     | .03  | .43  | .47  | .65  | .23  |     |    |    |     | .04  | .60 | 4.44 |        |
| Santuc            | .53           |     |     |   |     | T.  |     |     | .58  |     | .21 |     |    |    |    |    |    | .77  |     | T.   | .48  | 2.34 | .83  | .58  |     |    |    |     | T.   | .74 |      | 7.06   |
| Savannah, Ga.     | .09           |     |     |   |     |     |     |     | T.   | T.  | .25 |     |    |    |    |    |    | .01  | .11 | T.   | T.   | .03  | .01  |      |     |    |    |     | .28  | .71 | .05  | 1.56   |
| Smith Mills       |               | .21 |     |   |     |     |     |     | .08  |     | .28 |     |    |    |    |    |    |      | .18 |      |      | .04  |      | .10  |     |    |    |     |      | .48 |      | 1.37   |
| Society Hill      | .80           |     |     |   |     |     |     |     | .40  | .04 | .46 |     |    |    |    |    |    | .19  |     |      | .50  | .99  | .46  |      |     |    |    |     | .10  |     | 3.84 |        |
| Spartanburg       | 1.02          | .12 |     |   |     | .02 |     |     | .15  | .30 | T.  | .25 |    |    |    |    |    | .82  | .10 |      | 1.23 | .95  | .83  | .55  |     |    |    |     | .76  |     | 6.44 |        |
| Stateburg         | .32           |     |     |   |     |     |     |     | .41  |     | .63 | .11 |    |    |    |    |    | .30  |     |      | .19  | .25  | .54  | .93  |     |    |    |     | .80  |     | 4.14 |        |
| Summerville       | .06           | .38 |     |   |     |     |     |     | .03  |     | .27 | .13 |    |    |    |    |    | .26  |     |      | .08  |      | T.   | .05  |     |    |    |     |      | .80 | .06  | 2.12   |
| Trenton           |               |     |     |   |     |     |     |     | 1.16 |     | .27 |     |    |    |    |    |    | .53  |     | .03  | .38  | .32  | .18  | .40  |     |    |    |     | .06  | .71 | 4.04 |        |
| Trial             | .17           |     |     |   |     |     |     |     | .15  |     | .35 |     |    |    |    |    |    | .25  |     |      | .11  |      |      |      |     |    |    |     | .80  | .30 | 2.13 |        |
| Walhalla          | 1.56          |     |     |   |     |     |     |     | 1.70 | .26 |     |     |    |    |    |    |    | 1.30 |     | .12  | 1.65 | .30  |      |      |     |    |    |     |      |     |      |        |
| Walterboro        | .02           | .04 |     |   |     |     |     |     | .08  |     | .21 | .10 |    |    |    |    |    | .29  |     |      | .11  |      |      | .01  |     |    |    |     | .67  | .02 | 1.55 |        |
| Wilmington, N. C. | .54           |     |     |   |     | .17 |     |     | .05  |     | .19 | .15 |    |    |    |    |    | .22  |     |      | T.   | .12  | .14  | .16  |     |    |    |     | .13  | .62 | T.   | 2.49   |
| Winnboro          | .65           |     |     |   |     |     |     |     | .25  | .30 |     |     |    |    |    |    |    | .33  |     |      | T.   | .20  | .95  |      |     |    |    |     |      |     |      | 2.68   |
| Winthrop College  | T.            | .50 |     |   |     |     |     |     | .54  |     | .17 |     |    |    |    |    |    | .80  |     |      | T.   | .22  | 1.95 | .90  | .15 |    |    |     | .63  |     |      | 5.86   |
| Yemassee          |               | .16 |     |   |     |     |     |     | .05  | .07 | .39 |     |    |    |    |    |    |      | .34 |      |      | .04  |      | .01  |     |    |    |     | .40  | .15 |      | 1.61   |
| Yorkville         | .60           |     |     |   |     | T.  |     |     | T.   | .38 |     | .17 |    |    |    |    |    | .87  |     |      | T.   | .58  | 1.00 | 1.04 | .60 |    |    |     | T.   | .29 |      | 5.52   |

T. indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR DECEMBER, 1907.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF  
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

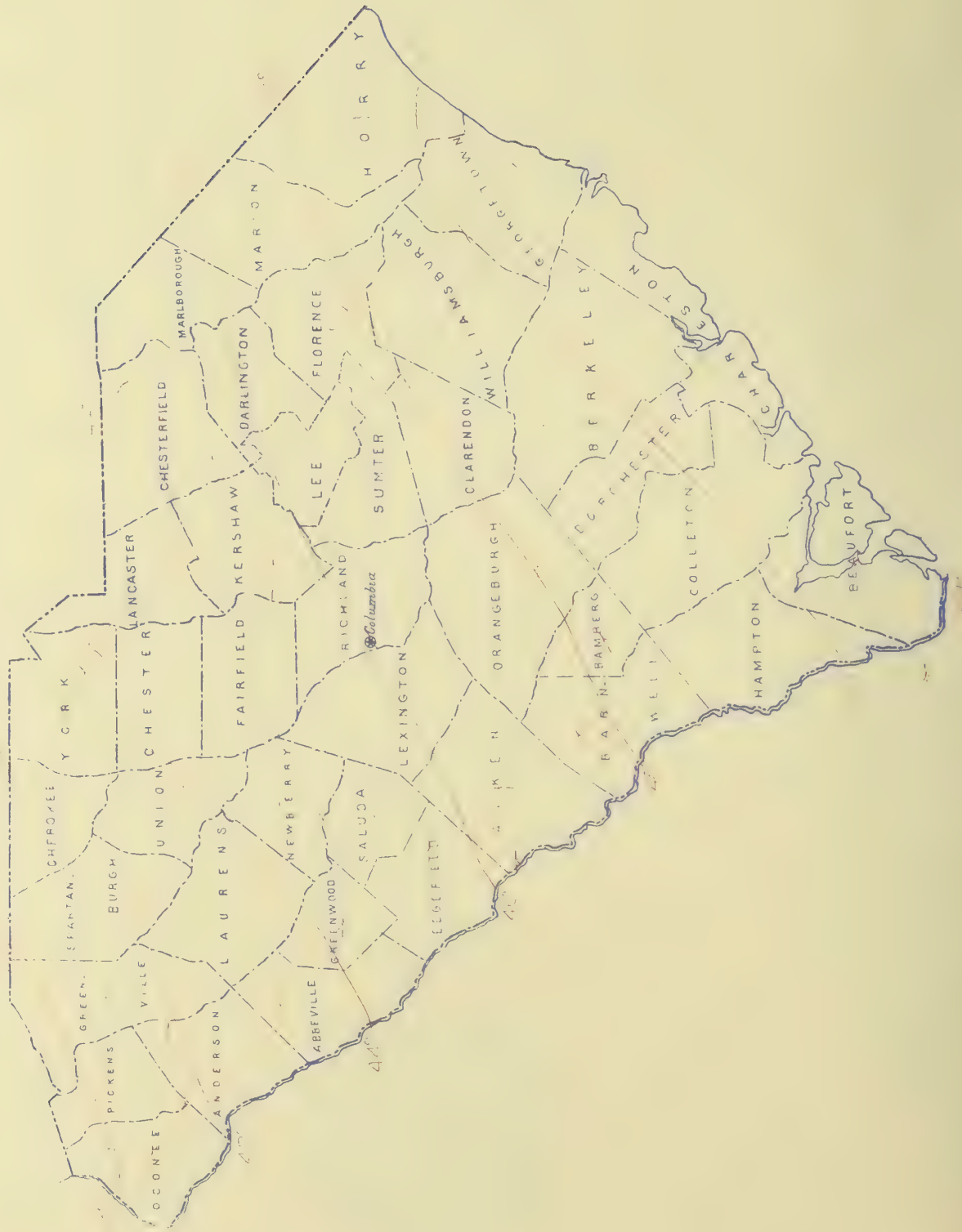


RALEIGH, N. C.  
WEATHER BUREAU OFFICE

JANUARY 27, 1908.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1907.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. X. COLUMBIA, S. C., DECEMBER, 1907. No. 12.

## GENERAL SUMMARY.

The monthly mean temperature for the whole State averaged about normal. In the eastern half, the mean temperature was considerably in excess of the normal, and in the western half there was a marked deficiency in temperature. Unusually high temperatures prevailed from the 8th to the 10th, when the highest temperatures of the month were recorded at a number of stations in the eastern and central counties. The temperature was above the seasonal average from the 22nd to the 31st, and at a majority of the stations the highest temperatures of the month were recorded on the 30th.

The month was unusually cool from the 1st to the 7th. In the western, northern and northeastern border counties minimum temperatures below 20° were recorded on the 5th, and over the rest of the State minimum temperatures below 32° were recorded on the same day.

The precipitation was above the normal over practically the whole State. The heaviest rainfall occurred in the extreme northwestern portions, the amounts decreasing regularly to the central counties; over the eastern half of the State the amounts differed but little at the various stations.

The rainfall was over three inches in all portions, and over eight inches in parts of York, Spartanburg, Cherokee, Greenville, Pickens and Oconee counties. The heaviest rains occurred after the 15th and caused three successive floods in the principal rivers.

Snow fell on the 4th over the central and northern counties. No snow was recorded south of a line drawn from Aiken to Conway. The snow melted as it fell in the central counties, and accumulated on the ground to a depth of from two to over three inches in the mountain districts.

The sunshine was slightly above the average amount during the fore part of the month and was considerably below the normal during the latter portion.

## TEMPERATURE.

The mean temperature was 46.2° which is exactly normal. The highest local mean was 51.8° at Beaufort, the lowest was 41.3° at Greenville. The monthly extremes of temperature were 75° at Blackville on the 25th and 31st, and at Georgetown and Walterboro on the 30th, and 12° at Liberty on the 5th, making the State range 63°. The greatest local monthly range was 55° at Walterboro, the least was 40° at Charleston. The mean of the daily maximum temperatures was 56.2°, and of the daily minimum temperatures was 36.2°, making the average daily range 20.0°.

## PRECIPITATION.

The average precipitation was 5.81 inches, which is 2.11 inches above the normal. The greatest local monthly amount was 8.70 inches at Yorkville, the least was 3.11 inches at Smiths Mills. The greatest 24-hour rainfall was 3.19 inches at Yemassee on the 14th. The average number of days with rain was 10, ranging from 5 days at Georgetown, Kingstree and Smiths Mills, to 15 days at Cheraw, Columbia, and Summerville.

EXCESSIVE PRECIPITATION.—At Calhoun Falls on the 22d-23d, 2.74 inches in 12 hours, 40 minutes; at Spartanburg on the 22d, 2.50 in 6 hours; at Walterboro on the 14th, 2.62 in 24 hours; at Yemassee on the 14th, 3.19 inches in 24 hours.

SNOW.—The average fall for the State was 0.5 of an inch. The greatest depth was 3.0 inches at Liberty on the 4th.

## WIND.

The prevailing direction of the wind was from the west at 19 stations, from the southwest at 12 stations, from the northwest at 5 stations, from the northeast at 4 stations, from the south at 3 stations, and from the north and the east at 2 stations each.

HIGH WINDS.—At Beaufort on the 4th, 10th, 13th, 22d; at Bowman on the 4th, 13th, 14th; at Camden on the 3d, 10th, 13th, 15th, 23d, 30th; at Charleston on the 13th; at Columbia and Winthrop College on the 23d; at Liberty on the 3d, 23d; at Newberry on the 23d, 30th; at Summerville on the 13th, 14th; at Trial on the 9th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 14, of partly cloudy days was 7, and of cloudy days was 10.

## MISCELLANEOUS PHENOMENA.

AURORA.—At Beaufort on the 1st.

SOLAR HALOS.—At Beaufort on the 11th; at Stateburg on the 7th.

SLEET.—At Bowman on the 20th; at Liberty on the 24th; at Trial on the 4th.

LUNAR HALOS.—At Beaufort, Columbia on the 18th; at Charleston on the 12th; at Saluda on the 28th; at Winthrop College on the 13th, 27th.

THUNDERSTORMS.—At Beaufort on the 22d; at Charleston on the 30th; at Little Mountain, Newberry on the 29th; at Santuc on the 14th.

SNOW.—At Camden, Clarks Hill, Clemson College, Columbia, Conway, Due West, Greenville, Liberty, Little Mountain, Newberry, Pelzer, Saluda, Spartanburg, Stateburg, Winthrop College on the 4th; at Cheraw, Kingstree on the 5th; at Bowman on the 20th.

DENSE FOGS.—At Beaufort on the 28th, 29th; Charleston, Columbia, Greenville, Trial on the 29th; at Liberty on the 9th, 28th, 29th; at Stateburg on the 19th, 29th; at Winthrop College on the 15th, 25th, 29th; at Yorkville on the 25th, 29th, 30th.

## REMARKS BY OBSERVERS.

BEAUFORT.—The mean temperature was slightly below the normal and the precipitation was much above normal. The mean temperature for the entire year was slightly



above the normal, and the precipitation was below the normal.—S. M. Benton. **BOWMAN.**—The first week was quite cold; the remainder of the month had moderate temperature. There were frequent rains, and some heavy rain-falls, after the 10th.—B. O. Evans. **HEATH SPRINGS.**—The temperature was about normal, the precipitation was above normal.—J. A. Weaner. **LIBERTY.**—The month was wet and unfavorable for farm work. The temperature was below the normal, generally, except during the last week which was unusually warm; frogs were heard and distant lightning observed.—John T. Boggs. **NEWBERRY.**—The month was unusually wet.—W. G. Peterson. **SANTUC.**—The month was very wet with some heavy rains. There were many clear mornings with unusually heavy frost deposits.—E. W. Jeter. **SUMMERVILLE.**—The percentage of relative humidity for the month was 79 per cent.—Miss E. H. Gadsden. **TRENTON.**—The total precipitation for the year was 8.60 inches below the normal.—C. A. Long.

BAROMETER AND WIND TABLE FOR DECEMBER, 1907.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.12      | 30.41    | 5     | 29.61   | 23    | 4.570           | 6.2             | 32                | sw.        | 23    |
| Charleston        | 30.11      | 30.41    | 6     | 29.62   | 14    | 7.660           | 10.3            | 50                | se.        | 13    |
| Charlotte, N. C.  | 30.11      | 30.45    | 21    | 29.52   | 23    | 5.462           | 7.2             | 38                | nw.        | 23    |
| Columbia          | 30.11      | 30.45    | 21    | 29.57   | 23    | 5.388           | 7.2             | 35                | w.         | 23    |
| Savannah, Ga.     | 30.13      | 30.42    | 5     | 29.65   | 23    | 5.966           | 8.0             | 31                | sw.        | 10    |
| Wilmington, N. C. | 30.11      | 30.48    | 21    | 29.55   | 23    | 6.067           | 8.2             | 34                | sw.        | 30    |
| Averages          | 30.11      | 30.48    | 21    | 29.52   | 23    | 5.854           | 7.9             | 50                | se.        | 13    |

RIVER GAGE READINGS, DECEMBER, 1907.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 3.9   | 16.0     | 24    | 0.6     | 4     |
| Calhoun Falls    | 4.6   | 9.3      | 31    | 2.5     | 8     |
| Camden           | 13.5  | 29.2     | 25    | 4.5     | 9     |
| Catawba          | 4.9   | 15.7     | 24    | 1.9     | *5    |
| Chappells        | 8.6   | 18.8     | 23    | 2.4     | *9    |
| Cheraw           | 11.0  | 29.1     | 16    | 2.1     | *7    |
| Columbia         | 5.3   | 18.7     | 24    | 1.0     | 8     |
| Edisto           | 4.3   | 5.4      | 18    | 3.3     | 14    |
| Effingham        | 6.5   | 8.8      | 19    | 4.0     | 13    |
| Ferguson         | 12.2  | 14.0     | 30    | 7.7     | 11    |
| Kingstree        | 6.8   | 9.0      | 25    | 4.2     | 14    |
| Mt. Holly, N. C. | 2.9   | 7.8      | 24    | 1.8     | 22    |
| Pelzer           | 3.8   | 6.3      | 24    | 2.2     | 9     |
| Rimini           | 12.8  | 18.4     | *28   | 6.1     | 10    |
| Smith Mills      | 11.6  | 15.0     | 24    | 6.1     | 13    |

\* On other dates also.

CLIMATOLOGY OF SPARTANBURG, S. C.  
Temperature.

| Year. | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1887. | 37   | 49   |      |       | 71   |      |      |      |       |      |      |      |       |
| 1888. |      |      |      |       |      |      |      | 76   | 68    | 60   | 52   |      |       |
| 1889. | 42   |      | 47   |       |      |      |      |      |       |      | 50   | 52   |       |
| 1890. | 50   | 52   | 49   | 60    | 69   | 85   | 74   |      | 66    | 59   | 57   | 44   |       |
| 1891. | 43   | 48   |      |       |      |      |      |      | 73    | 59   | 50   |      |       |
| 1892. |      |      |      | 62    | 68   | 75   | 82   | 79   | 73    | 62   | 50   |      |       |
| 1893. |      |      |      |       | 71   | 78   | 79   | 79   | 76    | 63   | 54   |      |       |
| 1894. |      |      | 52   | 61    | 68   | 78   | 80   | 80   | 77    | 58   | 51   | 42   |       |
| 1895. | 40   | 43   | 52   | 60    | 77   | 77   | 80   | 82   | 75    | 61   | 57   | 42   | 63    |
| 1896. | 39   | 46   | 52   | 59    | 68   | 77   | 79   | 76   | 72    | 64   | 50   | 44   | 60    |
| 1897. | 44   | 40   | 54   |       |      | 79   | 80   | 78   | 73    | 60   | 46   | 43   |       |
| 1898. | 43   | 36   | 49   | 57    | 73   | 79   | 79   | 80   | 70    | 61   | 50   | 40   | 60    |
| 1899. | 40   | 39   | 47   | 58    | 69   | 74   | 80   | 82   | 75    | 65   | 52   | 42   | 60    |
| 1900. | 40   | 40   | 50   | 55    | 70   | 76   | 82   | 78   | 70    | 61   | 46   | 39   | 59    |
| 1901. | 38   | 37   | 51   | 58    | 73   | 77   | 80   | 77   | 69    | 61   | 56   | 42   | 60    |
| 1902. | 39   | 44   | 56   | 58    | 70   | 72   | 80   | 79   | 71    | 60   | 47   | 37   | 59    |
| 1903. | 36   | 40   | 51   | 56    | 70   | 75   | 78   | 77   | 71    | 61   | 50   | 40   | 59    |
| 1904. | 37   | 36   | 58   | 61    | 71   | 79   | 79   | 76   | 75    | 61   | 52   | 40   | 60    |
| 1905. | 43   | 43   | 47   | 63    | 68   | 76   | 77   | 80   | 73    | 59   | 52   | 44   | 61    |
| M'ns  | 40.7 | 42.4 | 51.0 | 59.7  | 70.5 | 77.1 | 79.3 | 78.5 | 72.3  | 60.3 | 51.3 | 42.2 | 60.4  |

Precipitation.

| Year. | Jan. | Feb. | Mar. | April | May  | June | July | Aug.  | Sept. | Oct. | Nov. | Dec.  | Year. |
|-------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|
| 1888. |      |      |      |       |      |      |      | 5.75  | 12.30 | 3.20 | 2.40 |       |       |
| 1889. | 3.35 |      | 0.30 |       |      |      |      |       | 5.55  | 6.53 | 5.02 | 0.46  |       |
| 1890. | 1.16 | 5.00 | 3.69 | 2.30  | 6.20 | 2.26 | 4.64 |       | 2.12  | 0.18 | 2.30 |       |       |
| 1891. | 3.50 | 8.16 |      |       |      |      |      |       |       |      |      |       |       |
| 1892. |      |      |      |       | 4.00 | 8.24 | 2.17 |       | 2.38  | 4.17 | 3.33 |       |       |
| 1893. |      |      |      |       | 2.53 | 1.16 | 6.65 | 1.49  | 3.38  | 3.53 | 0.61 |       |       |
| 1894. |      |      |      |       | 4.17 | 2.20 | 2.90 | 6.18  | 0.34  | 0.39 | 3.00 | 2.35  |       |
| 1895. |      |      | 1.02 | 4.96  | 4.17 | 3.18 | 7.45 | 2.50  | 3.77  | 2.75 | 7.17 | 1.55  | 40.05 |
| 1896. | 1.99 | 5.05 | 1.69 | 1.01  | 1.94 | 6.19 | 2.99 | 4.42  | 3.30  | 2.34 | 4.78 | 2.30  | 47.84 |
| 1897. | 2.59 | 6.08 | 6.66 | 4.67  | 1.53 | 6.19 | 2.99 | 4.42  | 3.30  | 2.34 | 4.78 | 2.30  | 47.84 |
| 1898. | 2.78 | 0.70 | 2.72 | 3.64  | 0.92 | 3.83 | 6.90 | 6.82  | 5.44  | 4.90 | 2.59 | 3.73  | 44.05 |
| 1899. | 6.65 | 7.51 | 6.25 | 3.45  | 1.10 | 1.87 | 3.09 | 5.21  | 3.53  | 2.35 | 1.18 | 2.22  | 44.42 |
| 1900. | 2.74 | 8.19 | 5.34 | 5.94  | 3.17 | 7.94 | 2.03 | 1.72  | 2.11  | 3.56 | 5.45 | 4.45  | 52.44 |
| 1901. | 3.06 | 2.80 | 7.19 | 7.29  | 9.47 | 6.56 | 3.49 | 15.66 | 5.81  | 1.01 | 0.96 | 10.23 | 73.53 |
| 1902. | 3.06 | 7.88 | 5.02 | 1.28  | 1.81 | 6.13 | 3.61 | 1.20  | 5.85  | 4.36 | 3.33 | 4.68  | 48.51 |
| 1903. | 5.04 | 9.03 | 8.68 | 4.43  | 1.59 | 9.96 | 2.17 | 4.64  | 2.25  | 1.05 | 1.82 | 1.82  | 52.48 |
| 1904. | 1.37 | 3.03 | 5.00 | 1.52  | 2.07 | 4.78 | 4.04 | 11.79 | 1.47  | 0.83 | 3.99 | 4.10  | 43.99 |
| 1905. | 2.78 | 5.81 | 1.01 | 2.82  | 7.21 | 1.01 | 6.76 | 7.19  | 0.80  | 2.10 | 1.16 | 8.07  | 46.72 |
| 1906. | 8.69 | 1.00 | 6.32 | 1.34  | 3.03 | 4.91 | 7.97 | 12.45 | 5.97  | 3.07 | 0.94 | 3.84  | 59.53 |
| M'ns  | 3.48 | 5.40 | 4.56 | 3.43  | 3.38 | 4.70 | 4.46 | 6.22  | 3.90  | 2.72 | 2.78 | 3.82  | 48.87 |

Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 50                    | 1890  | 36                   | 1906  | 8.69              | 1906  | 1.16           | 1890  |
| February  | 52                    | 1890  | 36                   | *1899 | 9.03              | 1903  | 0.70           | 1898  |
| March     | 58                    | 1905  | 47                   | *1889 | 8.68              | 1903  | 0.30           | 1889  |
| April     | 66                    | 1896  | 55                   | 1901  | 7.29              | 1901  | 1.01           | 1896  |
| May       | 77                    | 1896  | 68                   | *1893 | 9.47              | 1901  | 0.92           | 1898  |
| June      | 85                    | 1890  | 74                   | 1900  | 9.96              | 1903  | 1.01           | 1905  |
| July      | 82                    | *1893 | 74                   | 1890  | 7.97              | 1906  | 2.03           | 1900  |
| August    | 82                    | *1896 | 76                   | *1888 | 15.66             | 1901  | 1.20           | 1902  |
| September | 77                    | 1895  | 66                   | 1890  | 12.30             | 1888  | 0.34           | 1895  |
| October   | 65                    | 1900  | 58                   | 1895  | 6.53              | 1890  | 0.18           | 1891  |
| November  | 57                    | *1890 | 46                   | *1898 | 7.17              | 1896  | 0.61           | 1894  |
| December  | 52                    | 1889  | 37                   | 1903  | 10.23             | 1901  | 0.46           | 1889  |

\* And other years.

COMPARATIVE DECEMBER DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                  |                |               | Number Rainy Days. | Prevailing Wind Direction. |        |
|-----------|--------------|---------------|---------------|----------|----------|----------------|------------------|----------------|---------------|--------------------|----------------------------|--------|
|           | Mean.        | Mean Maximum. | Mean Minimum. | Maximum. | Minimum. | Average.       | Greatest Annual. |                | Least Annual. |                    |                            |        |
|           |              |               |               |          |          |                | Amount.          | Place.         | Amount.       |                    |                            | Place. |
| 1894..... | 48.1         | 56.8          | 39.7          | 85       | —1       | 2.56           | 6.37             | Central.       | 0.43          | Hardeeville.       | 7                          | nw.    |
| 1895..... | 46.1         | 57.1          | 35.5          | 80       | 15       | 3.04           | 6.55             | Holland.       | 1.25          | Central.           | 6                          | nw.    |
| 1896..... | 44.0         | 54.5          | 33.5          | 83       | 8        | 3.55           | 6.46             | St. George.    | 0.55          | Walhalla.          | 7                          | ne.    |
| 1897..... | 47.6         | 57.6          | 37.7          | 82       | 21       | 2.40           | 4.11             | Walhalla.      | 1.10          | Georgetown.        | 8                          | ne.    |
| 1898..... | 49.5         | 54.8          | 37.0          | 77       | 9        | 2.84           | 6.52             | Gillisonville. | 1.02          | Cheraw.            | 8                          | nw.    |
| 1899..... | 44.6         | 54.9          | 34.2          | 79       | 11       | 2.33           | 4.05             | Batesburg.     | 0.85          | Charleston.        | 7                          | nw.    |
| 1900..... | 45.5         | 55.6          | 35.4          | 79       | 18       | 5.64           | 8.15             | Effingham.     | 3.65          | Batesburg.         | 8                          | n.     |
| 1901..... | 44.0         | 54.4          | 33.5          | 80       | 2        | 5.01           | 10.23            | Spartanburg.   | 1.28          | Gillisonville.     | 11                         | n.     |
| 1902..... | 46.8         | 56.6          | 37.1          | 85       | 10       | 4.26           | 6.80             | Conway.        | 1.92          | Bennettsville.     | 7                          | nw.    |
| 1903..... | 41.0         | 52.5          | 29.4          | 72       | 10       | 1.95           | 3.84             | Smiths Mills.  | 0.57          | Barksdale.         | 6                          | w.     |
| 1904..... | 45.5         | 54.9          | 36.1          | 78       | 16       | 2.97           | 4.90             | Greenville.    | 1.08          | Charleston.        | 9                          | w.     |
| 1905..... | 45.2         | 54.7          | 35.8          | 77       | 16       | 7.25           | 11.18            | Chappells.     | 3.18          | Kingstree.         | 10                         | de.    |
| 1906..... | 48.0         | 58.1          | 38.0          | 89       | 11       | 3.25           | 7.71             | Walhalla.      | 1.18          | Winnaboro.         | 7                          | sw.    |
| 1907..... | 46.2         | 56.2          | 36.2          | 75       | 12       | 5.81           | 8.70             | Yorkville.     | 3.11          | Smiths Mills.      | 10                         | w.     |



CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER 1907.

| STATIONS                              | COUNTIES     | Elevat. in feet | Temperature in degrees Fahrenheit |         |         |      |        |      | Precipitation in inches |         |       |         | Sky     |                |                |                |                |                | Observations           |
|---------------------------------------|--------------|-----------------|-----------------------------------|---------|---------|------|--------|------|-------------------------|---------|-------|---------|---------|----------------|----------------|----------------|----------------|----------------|------------------------|
|                                       |              |                 | Mean                              | Deafest | Highest | Date | Lowest | Date | Deafest                 | Highest | Total | Deafest | Highest | Number of days | Number of days | Number of days | Number of days | Number of days |                        |
| Arken                                 | Arken        | 505             | 23                                | 17.3    | 1.3     | 73   | 9      | 21   | *5                      | 50      | 5.18  | +2.06   | 1.00    | 0              | 9              | 16             | 5              | 8              | C. F. McGahan, M. D.   |
| Blendale                              | Barnwell     | 186             | 19                                | 48      | +2.6    | 20   | 30     | 27   | 0                       | 36      | 3.70  | +1.18   | 1.75    | 0              | 1              | 15             | 0              | 16             | A. R. Hiers            |
| Anderson                              | Anderson     | 704             | 6                                 | 12.8    | 1.2     | 67   | 30     | 15   | 5                       | 35      | 6.58  | +1.58   | 1.85    | 0.8            | 11             | 16             | 2              | 13             | H. H. Russell,         |
| Augusta, Ga.                          | Richmond     | 131             | 36                                | 17.2    | +0.2    | 70   | 30     | 24   | 5                       | 33      | 4.83  | +1.40   | 2.11    | T.             | 15             | 13             | 7              | 11             | Weather Bureau         |
| Barksdale                             | Laurens      | 680             | 6                                 |         |         |      |        |      |                         |         |       |         |         |                |                |                |                |                | J. T. Garrett,         |
| Batesburg                             | Lexington    | 656             | 19                                | 15.1    | 1.3     | 66   | 6      | 20   | 5                       | 42      | 5.46  | +1.01   | 1.70    | T.             | 8              | 17             | 1              | 16             | E. J. Hite             |
| Beaufort                              | Beaufort     | 20              | 21                                | 51.8    | 0.5     | 70   | *8     | 27   | 0                       | 30      | 4.71  | +2.30   | 2.15    | 0              | 12             | 11             | 11             | 9              | S. M. Benton           |
| Bennettsville                         | Marlboro     | 151             | 6                                 | 46.4    |         | 72   | 10     | 18   | 5                       | 36      | 3.12  |         | 1.38    | 4.0            | 7              | 19             | 6              | 6              | C. S. McCall           |
| Blackville                            | Barnwell     | 206             | 19                                | 50.2    | +1.3    | 75   | *25    | 24   | 5                       | 10      | 4.78  | +1.17   | 2.00    | 0              | 13             | 13             | 7              | 11             | Miss M. E. Lange       |
| Bluffs                                | Fairfield    | 203             | 2                                 |         |         |      |        |      |                         |         | 7.70  |         | 2.04    | 0.8            | 10             | 14             | 8              | 9              | T. S. McMeekin         |
| Rowman                                | Orangeburg   | 160             | 6                                 | 48.1    |         | 70   | 30     | 20   | 6                       | 41      | 6.41  |         | 2.44    |                | 12             | 15             | 8              | 8              | B. O. Evans            |
| Calhoun Falls                         | Abbeville    | 508             | 14                                |         |         |      |        |      |                         |         | 7.84  | +4.20   | 2.71    | 0              | 10             | 12             | 2              | 17             | P. J. Pfeiffer         |
| Camden (1)                            | Kershaw      |                 | 2                                 | 45.5    |         | 67   | 30     | 22   | 5                       | 30      | 5.98  |         | 2.20    | 1.0            | 13             | 17             | 3              | 11             | J. B. Mickle           |
| Camden (2)                            | Kershaw      | 222             | 41                                |         |         |      |        |      |                         |         | 1.60  | +1.45   | 1.68    |                | 10             | 19             | 3              | 9              | W. C. Brown            |
| Catawba                               | York         |                 | 2                                 |         |         |      |        |      |                         |         | 7.55  |         | 2.30    |                | 9              | 18             | 4              | 9              | Jas. C. Farris         |
| Chappells                             | Newberry     | 402             | 2                                 |         |         |      |        |      |                         |         | 8.32  |         | 1.98    |                | 9              | 15             | 6              | 10             | W. R. Zimmerman        |
| Charleston                            | Charleston   | 48              | 38                                | 51.6    | +0.3    | 70   | 10     | 30   | 5                       | 29      | 4.08  | +0.93   | 2.12    | 0              | 9              | 9              | 16             | 6              | Weather Bureau         |
| Charlotte, N. C.                      | Mecklenburg  | 808             | 29                                | 42.6    | -0.3    | 66   | 30     | 22   | 5                       | 28      | 6.09  | +3.13   | 2.20    | 1.8            | 13             | 11             | 9              | 11             | Weather Bureau         |
| Cheraw (1)                            | Chesterfield | 141             | 19                                | 44.2    | 0.3     | 69   | 10     | 20   | *5                      | 37      | 4.41  | +1.81   | 1.58    | 1.0            | 13             | 11             | 8              | 12             | W. R. Godfrey          |
| Cheraw (2)                            |              | 141             | 14                                |         |         |      |        |      |                         |         | 4.50  | +1.38   | 1.67    | 1.4            | 15             | 17             | 4              | 10             | Jno. H. Powe           |
| Clarks Hill                           | Edgefield    | 500             | 5                                 | 44.9    |         | 68   | 30     | 17   | 5                       | 35      | 6.74  |         | 2.00    | 2.5            | 10             |                |                |                | Wm. S. Middleton       |
| Clemson College                       | Oconee       | 850             | 16                                | 42.0    | -0.5    | 65   | 30     | 16   | 5                       | 32      | 7.45  | +3.91   | 2.26    | 1.0            | 11             | 16             | 7              | 8              | Jno. S. Hook           |
| Columbia                              | Richland     | 351             | 20                                | 46.6    | -0.6    | 69   | 30     | 24   | 5                       | 33      | 4.22  | +1.32   | 1.71    | 0.4            | 15             | 8              | 10             | 13             | Central Office         |
| Conway                                | Horry        | 25              | 15                                | 48.8    |         | 74   | 30     | 21   | 6                       | 43      | 4.72  | +2.16   | 1.82    | T.             | 5              | 16             | 0              | 15             | P. C. Quattlebaum      |
| Darlington                            | Darlington   | 175             | 12                                | 44.0    |         | 72   | 10     | 19   | 6                       | 12      |       |         |         |                |                |                |                |                | D. C. McCall           |
| Dillon                                | Marion       | 100             | 3                                 | 46.8    |         | 71   | 30     | 19   | 6                       | 43      | 4.62  |         | 1.74    | T.             | 11             |                |                |                | A. E. Rowell           |
| Due West                              | Abbeville    | 730             | 6                                 | 45.2    |         | 66   | *9     | 21   | 5                       | 31      | 6.05  |         | 2.37    | T.             | 7              | 15             | 3              | 12             | Rev. O. Y. Bonner      |
| Edisto                                | Bamberg      | 127             | 14                                |         |         |      |        |      |                         |         | 5.75  | +2.68   | 2.14    | 0              | 7              | 14             | 5              | 12             | Mrs. M. Thompson       |
| Edinburgh                             | Florence     | 106             | 15                                |         |         |      |        |      |                         |         | 3.90  | +0.69   | 1.50    | 0              | 7              | 21             | 0              | 10             | H. B. McCall           |
| Ferguson                              |              |                 |                                   |         |         |      |        |      |                         |         | 3.32  |         | 1.60    | 0              | 7              | 18             | 11             | 2              | John T. Bowers         |
| Florence                              | Florence     | 136             | 19                                | 46.6    | +3.0    | 70   | *10    | 21   | 6                       | 38      | 4.18  | +1.72   | 1.90    | 0              | 6              | 16             | 8              | 7              | H. K. Gilbert          |
| Georgetown                            | Georgetown   | 12              | 14                                | 51.0    | +2.3    | 75   | 30     | 27   | 5                       | 39      | 3.93  | +0.61   | 2.34    | 0              | 5              | 17             | 4              | 10             | Wm. Alden James        |
| Greenville                            | Greenville   | 980             | 15                                | 41.3    | -0.2    | 66   | 30     | 21   | 6                       | 41      | 6.82  | +3.62   | 2.32    | 0.2            | 10             | 17             | 3              | 11             | Mrs. S. A. Crittenden  |
| Greenwood                             | Greenwood    | 671             | 19                                | 41.9    | -0.8    | 64   | 8      | 22   | *5                      | 34      | 7.35  | +4.11   | 2.78    |                | 8              | 16             | 0              | 15             | M. M. Calhoun          |
| Heath Spring                          | Lancaster    | 568             | 6                                 | 44.2    |         | 67   | 30     | 25   | 20                      | 26      | 7.13  |         | 1.50    |                | 10             | 13             | 8              | 10             | J. A. Weaver           |
| Kingstree (1)                         | Williamsburg | 54              | 19                                | 50.0    | +2.9    | 71   | 30     | 23   | 6                       | 32      | 4.82  | +1.77   | 2.00    | T.             | 11             | 17             | 3              | 11             | J. A. Scott            |
| Kingstree (2)                         |              | 54              | 13                                |         |         |      |        |      |                         |         | 5.26  | +1.95   | 2.35    | 0              | 5              | 15             | 4              | 12             | A. O. Matthews         |
| Liberty                               | Pickens      | 900             | 13                                | 41.4    | -1.2    | 66   | 30     | 12   | 5                       | 32      | 8.40  | +4.99   | 1.92    | 3.0            | 10             | 14             | 10             | 7              | Jno. T. Boggess        |
| Little Mountain                       | Newberry     | 630             | 14                                | 46.0    |         | 68   | 30     | 23   | 5                       | 40      | 4.30  | +1.32   | 1.33    | 0.5            | 11             | 17             | 2              | 12             | John M. Sause, M. D.   |
| Newberry                              | Newberry     | 502             | 3                                 | 44.4    | +1.8    | 70   | 30     | 22   | *5                      | 39      | 7.87  | +4.03   | 2.32    | 0.6            | 12             | 14             | 2              | 15             | W. G. Peterson         |
| Pelzer                                | Anderson     | 873             | 2                                 |         |         |      |        |      |                         |         | 6.77  |         | 2.40    | 0.5            | 8              | 17             | 1              | 13             | John M. Ward           |
| Pinopol ss                            | Berkeley     | 54              | 14                                |         |         |      |        |      |                         |         |       |         |         |                |                |                |                |                | E. P. Ravenel          |
| St. George                            | Dorchester   | 109             | 19                                | 50.4    | +3.0    | 73   | 30     | 21   | 6                       | 34      | 4.69  | +1.03   | 2.00    | 0              | 6              | 21             | 0              | 10             | G. T. Lewis            |
| St. Matthews                          | Orangeburg   | 269             | 19                                | 46.2    | -0.9    | 69   | 22     | 25   | 5                       | 35      | 4.48  | +1.55   | 2.40    |                | 7              | 18             | 0              | 13             | J. S. Warramaker       |
| Saluda                                | Saluda       | 536             | 6                                 | 44.4    |         | 67   | *8     | 20   | 5                       | 39      | 6.83  |         | 2.22    | T.             | 13             | 15             | 2              | 14             | Alvin Etheridge        |
| Santee                                | Union        | 512             | 13                                | 43.0    | -0.5    | 67   | 30     | 19   | 5                       | 38      | 7.13  | +3.94   | 2.30    | 0.2            | 11             | 11             | 8              | 12             | E. W. Jeter            |
| Savannah, Ga.                         | Chatham      | 71              | 38                                | 52.5    | +1.2    | 74   | 30     | 29   | 5                       | 26      | 3.98  | +0.88   | 1.76    | 0              | 11             | 9              | 11             | 11             | Weather Bureau         |
| Smith Mills                           | Williamsburg | 62              | 12                                |         |         |      |        |      |                         |         | 3.11  | -1.08   | 1.40    | T.             | 5              | 19             | 0              | 12             | H. van Keuren          |
| Society Hill                          | Darlington   | 192             | 16                                | 45.1    | -0.6    | 68   | 30     | 22   | 5                       | 31      | 3.78  | +1.00   | 1.60    | 2.0            | 8              | 17             | 1              | 13             | J. J. Lucas            |
| Spartanburg                           | Spartanburg  | 875             | 16                                | 41.7    | -1.9    | 68   | 30     | 16   | 5                       | 41      | 8.21  | +5.63   | 2.70    | 0.8            | 12             | 12             | 1              | 17             | F. P. Robinson         |
| Stateburg                             | Sumter       | 500             | 39                                | 48.6    | +1.0    | 69   | *8     | 24   | 5                       | 25      | 4.08  | +1.10   | 1.78    | 1.5            | 11             | 10             | 9              | 12             | W. W. Anderson, M. D.  |
| Summerville                           | Dorchester   | 75              | 10                                | 49.9    | +1.1    | 74   | 30     | 21   | 6                       | 40      | 6.60  | +2.99   | 2.23    | 0              | 15             | 8              | 13             | 10             | Miss E. H. Gadsden     |
| Trenton                               | Edgefield    | 620             | 14                                | 45.0    | -3.4    | 66   | 30     | 22   | 5                       | 29      | 8.24  | +4.91   | 3.05    | 0              | 11             | 15             | 7              | 9              | C. A. Long             |
| Trial                                 | Berkeley     | 85              | 21                                | 48.6    | 0       | 71   | *8     | 22   | 6                       | 42      | 5.17  | +2.14   | 1.60    | 0              | 11             | 10             | 12             | 9              | Etsell Gaillard        |
| Walthalla                             | Oconee       | 1061            | 16                                | 42.4    | -1.9    | 62   | 9      | 21   | 5                       | 27      |       |         | 2.30    |                |                | 8              | 8              | 5              | W. Miss Jessie Douthit |
| Walterboro                            | Colleton     | 69              | 4                                 | 50.1    |         | 75   | 30     | 20   | 6                       | 45      | 7.21  |         | 2.62    | 0              | 10             | 15             | 7              | 6              | J. A. Westerberg       |
| Wilmington, N. C.                     | New Hanover  | 52              | 38                                | 49.1    | +1.9    | 71   | 30     | 27   | 5                       | 29      | 2.31  | -0.81   | 1.27    | 0.4            | 11             | 13             | 12             | 6              | Weather Bureau         |
| Winnboro                              | Fairfield    | 545             | 18                                | 44.8    | -1.9    | 63   | *9     | 21   | 5                       | 26      | 6.14  | +3.34   | 1.40    | 1.0            | 10             | 15             | 2              | 14             | John W. Seigler        |
| Winthrop College                      | York         | 690             | 8                                 | 44.1    | -2.3    | 69   | 30     | 18   | 5                       | 31      | 7.03  | +4.19   | 2.45    | 1.0            | 10             | 15             | 7              | 9              | E. R. Rivers           |
| Yemassee                              | Beaufort     | 23              | 12                                | 49.2    | +1.1    | 71   | 30     | 22   | 6                       | 33      | 7.71  | +4.14   | 3.19    | 0              | 7              | 16             | 3              | 12             | J. G. Hutson           |
| Yorkville                             | York         | 680             | 19                                | 44.7    | +1.4    | 68   | 30     | 20   | 5                       | 32      | 8.70  | +5.72   | 2.62    | 3.0            | 10             | 9              | 10             | 12             | J. R. Schorn           |
| MEANS—highest, lowest and dates, etc. |              |                 | 46.2                              | 0       | 75      | *25  | 12     | 5    | 50                      | 5.81    | +2.14 | 3.19    | 0.5     | 10             | 14             | 7              | 10             | W.             |                        |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.      † Maximum thermometer not standard.      ‡ Minimum thermometer not standard.      § Exposed not standard.  
\* On other dates also.      a indicates 1 day missing, b, 2 days, etc.      The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING DECEMBER, 1907.

[illegible]

The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively,



TOTAL PRECIPITATION FOR DECEMBER, 1907.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1907.

| STATIONS.         | Day of Month. |   |     |     |     |   |   |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | Total. |      |
|-------------------|---------------|---|-----|-----|-----|---|---|-----|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|------|------|------|--------|------|
|                   | 1             | 2 | 3   | 4   | 5   | 6 | 7 | 8   | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16  | 17  | 18  | 19  | 20  | 21  | 22   | 23   | 24   | 25   | 26   | 27  | 28  | 29   | 30   | 31   |        |      |
| Aiken             |               |   |     |     | .24 |   |   |     | .34  |      |      |      | 1.00 | .90  |      |     |     | .70 |     |     |     | .15  | 1.00 | .10  |      |      |     |     |      | .75  | 4.98 |        |      |
| Allendale         |               |   |     |     |     |   |   |     | .79  | .16  |      |      | .65  | .67  | .20  |     |     |     | .07 |     |     | .48  | 1.75 |      |      |      |     |     | .40  |      | 3.70 |        |      |
| Anderson          |               |   |     | .04 |     |   |   |     | .32  | .02  |      |      | 1.93 | .16  | .07  |     |     |     | .05 |     | .01 | 1.01 | .44  |      |      |      |     | .14 | .28  | 1.85 | 6.58 |        |      |
| Augusta, Ga.      |               |   |     | .06 |     |   |   | .02 | .32  | .02  |      |      | 1.93 | .16  | .07  |     |     |     | .05 |     | .01 | 1.01 | .44  |      |      |      |     | .14 | .15  | .35  | 4.83 |        |      |
| Barksdale         |               |   |     |     |     |   |   |     | .24  | .20  |      |      |      | 1.76 | .11  |     |     |     |     |     |     |      | 1.79 |      |      |      |     |     | .17  | .93  | 2.6  |        |      |
| Batesburg         |               |   |     |     |     |   |   |     | .10  | .57  |      |      | 2.15 |      | .11  |     |     |     | .06 |     | .01 | .06  | .42  | 1.00 | .01  |      |     | .11 | .02  | .09  | 4.71 |        |      |
| Beaufort          |               |   |     |     |     |   |   |     | .42  |      |      |      | 1.38 |      |      |     | .12 |     |     |     | .05 |      | .60  |      |      |      |     |     |      |      | 3.12 |        |      |
| Bennettsville     |               |   | .40 |     |     |   |   |     | .21  |      |      |      | 2.00 | .30  |      |     |     | .04 | .03 |     | .04 | 1.50 | T.   | .08  |      |      |     | .29 | .07  | .18  | 4.78 |        |      |
| Blackville        |               |   | .04 |     |     |   |   | .02 | .40  | .30  |      |      | 2.00 | .20  |      |     |     |     | .04 |     |     |      | 2.04 |      |      |      |     | .24 | 1.90 | .50  | 7.70 |        |      |
| Blairs            |               |   |     |     | .08 |   |   |     | .24  | 1.18 |      |      | .38  | 2.44 | .12  |     |     | .24 |     |     | .11 |      | 1.12 | .16  |      |      |     | .26 | .05  | .11  | 6.41 |        |      |
| Bowman            |               |   |     |     |     |   |   |     | .33  | .45  |      |      |      | 1.45 | .54  |     |     |     |     |     | .06 |      |      | 2.74 |      |      |     | .18 | .38  | .94  | 7.84 |        |      |
| Calhoun Falls     |               |   |     |     | .11 |   |   |     | .38  | .13  |      |      | .45  | 1.23 |      |     |     |     |     |     | .02 |      | .05  | 2.15 | .07  |      |     | .10 | .03  | 1.22 | 5.98 |        |      |
| Camden (1)        |               |   | .09 |     |     |   |   |     | .34  | .22  |      |      |      | 1.68 |      |     |     |     |     |     | .06 |      | 1.26 |      |      |      |     |     | .10  | .60  | .08  | 4.60   |      |
| Camden (2)        |               |   |     |     | .08 |   |   |     | .34  | .22  |      |      |      | 1.68 |      |     |     |     |     |     | .06 |      | 2.20 |      |      |      |     |     |      |      | 7.55 |        |      |
| Catawba           |               |   | .20 |     |     |   |   |     | .50  | .40  |      |      |      | 2.30 | .15  |     |     |     |     |     |     |      | 2.20 |      |      |      |     |     |      | 1.40 | .34  | 8.32   |      |
| Chappells         |               |   |     |     |     |   |   |     | .24  | .30  |      |      |      | 1.98 | .48  |     |     |     |     |     |     |      | 1.10 | 2.10 |      |      |     |     | .12  | 1.94 |      |        |      |
| Charleston        |               |   |     |     |     |   |   |     | .68  | .01  | 1.02 | 1.10 | .06  |      |      |     |     |     |     |     |     |      | 1.65 | .14  |      |      |     | .32 |      |      | 4.08 |        |      |
| Charlotte, N. C.  |               |   | .06 |     |     |   |   |     | .14  | .72  | .23  |      |      | 1.23 | .68  |     |     |     |     | .06 |     |      |      | 1.32 | .88  | .02  |     | .01 | .50  | 1.14 |      | 6.99   |      |
| Cheraw (1)        |               |   |     |     | .15 |   |   |     | .15  | .21  |      |      |      | 1.58 | .07  |     |     |     |     |     | .16 |      |      |      | .67  | .01  | .09 |     |      |      | .10  | .96    | 2.2  |
| Cheraw (2)        |               |   | .14 |     |     |   |   |     | .14  | .24  |      |      |      | 1.67 | .07  | .01 |     |     |     | .04 | .09 |      |      |      | .62  | .04  | .10 |     |      |      | 1.00 | .21    | 4.50 |
| Clark's Hill      |               |   | .25 |     |     |   |   |     | .46  |      |      |      |      | 2.00 | .55  |     |     |     |     |     |     |      |      |      |      |      |     |     | .30  | .10  | .51  | 6.74   |      |
| Clemson College   |               |   | .10 |     |     |   |   |     | .57  | .29  |      |      |      | 1.53 |      |     |     |     |     |     | .07 |      |      |      | .75  | 1.25 |     | .18 | .15  | 2.26 |      | 7.45   |      |
| Columbia          |               |   | .04 |     |     |   |   | .03 | .41  | .01  |      |      |      | 1.41 | .33  | .02 |     |     |     |     |     |      |      | .36  | 1.00 | .02  |     | .06 | .28  | .16  |      | 4.22   |      |
| Conway            |               |   |     |     |     |   |   |     | .12  | 1.82 |      |      |      | 1.82 | .18  | .05 |     |     |     |     |     |      |      |      | .50  |      |     |     |      |      | T.   | .07    | 4.72 |
| Darlington        |               |   | .15 |     |     |   |   |     | .25  | .44  |      |      |      | 2.0  | 1.57 | .07 |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 6.62   |      |
| Dillon            |               |   | .19 |     |     |   |   |     | .41  | .90  |      |      |      | 1.74 |      |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 6.05   |      |
| Due West          |               |   |     |     |     |   |   |     | .32  |      |      |      |      | 2.0  | .28  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 5.75   |      |
| Edisto            |               |   |     |     |     |   |   |     | .33  | .64  |      |      |      | 1.50 |      |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 3.90   |      |
| Effingham         |               |   |     |     | .10 |   |   |     | .08  | 1.20 |      |      |      | 1.50 |      |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 3.32   |      |
| Ferguson          |               |   |     |     |     |   |   |     | .18  | .74  |      |      |      | 1.90 | .30  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 4.18   |      |
| Florence          |               |   |     |     |     |   |   | .06 |      | 1.10 |      |      |      | 2.34 |      |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 3.93   |      |
| Georgetown        |               |   |     |     |     |   |   |     | .45  | .48  |      |      |      | 1.45 | .05  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 6.82   |      |
| Greenville        |               |   |     |     | .02 |   |   |     | .74  | .23  |      |      |      | 2.78 | .07  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 7.35   |      |
| Greenwood         |               |   |     |     |     |   |   |     | .70  |      |      |      |      | 1.00 | .85  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 7.13   |      |
| Heath Spring      |               |   | .10 |     |     |   |   |     | .70  |      |      |      |      | 1.00 | .85  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 4.82   |      |
| Kingstree (1)     |               |   |     |     |     |   |   |     | .10  | .75  |      |      |      | 2.00 | .03  | .02 |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 5.26   |      |
| Kingstree (2)     |               |   |     |     |     |   |   |     | .70  |      |      |      |      | 2.35 |      |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 8.40   |      |
| Liberty           |               |   | .30 |     |     |   |   |     | .10  | .05  | .10  |      |      | 1.85 |      |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 4.30   |      |
| Little Mountain   |               |   | .05 |     |     |   |   |     | .37  | .08  |      |      |      | .93  | .84  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 7.87   |      |
| Newberry          |               |   | .06 |     |     |   |   |     | .40  | .27  |      |      |      | 1.96 | .17  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 6.77   |      |
| Pelzer            |               |   | .10 |     |     |   |   |     | .42  | .50  |      |      |      | 1.45 | .07  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 4.69   |      |
| Pinopolis         |               |   |     |     |     |   |   |     | .09  | .90  |      |      |      | 2.00 | .05  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 4.48   |      |
| St. George        |               |   |     |     |     |   |   |     | .10  | .44  | 2.40 |      |      |      | .30  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 6.83   |      |
| St. Matthews      |               |   |     |     |     |   |   |     | .10  | .44  | 2.40 |      |      |      | .30  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 7.13   |      |
| Saluda            |               |   |     |     |     |   |   |     | .54  | .16  |      |      |      | .90  | 1.12 |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 3.98   |      |
| Santuc            |               |   | .07 |     |     |   |   |     | .71  | .16  |      |      |      | .34  | 2.02 |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 3.11   |      |
| Savannah, Ga.     |               |   |     |     |     |   |   |     | .72  | .05  |      |      |      | 1.74 | .02  | .14 |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 3.78   |      |
| Smith Mills       |               |   |     |     |     |   |   |     | .10  | .40  |      |      |      | 1.60 | .04  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 8.21   |      |
| Society Hill      |               |   | .85 |     |     |   |   |     | .41  |      |      |      |      | 1.75 | .13  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 4.08   |      |
| Spartanburg       |               |   | .08 |     |     |   |   |     | .70  | .58  |      |      |      | 1.78 | .09  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 6.60   |      |
| Stateburg         |               |   | .06 |     |     |   |   |     | .10  | .19  |      |      |      | .71  | 2.23 | .30 |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 8.24   |      |
| Summerville       |               |   | .01 |     |     |   |   |     | .10  | .67  |      |      |      | .71  | 2.23 | .30 |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 5.17   |      |
| Trenton           |               |   |     |     |     |   |   |     | .42  | .04  |      |      |      | 1.32 | 1.73 |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 7.21   |      |
| Trial             |               |   |     |     |     |   |   |     | 1.25 |      |      |      |      | 1.46 | .05  | .03 |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 2.31   |      |
| Walhalla          |               |   |     |     |     |   |   |     | 1.60 |      |      |      |      | 1.35 | 1.25 |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 6.14   |      |
| Walterboro        |               |   |     |     |     |   |   |     | 1.12 | .82  | 2.62 | .06  |      |      | .05  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 7.03   |      |
| Wilmington, N. C. |               |   |     |     |     |   |   |     | .01  | .32  |      |      |      | .19  | 1.08 | .05 |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 7.74   |      |
| Winnboro          |               |   | .10 |     |     |   |   |     | 1.40 |      |      |      |      | 1.20 | .10  |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      | 8.70   |      |
| Winthrop College  |               |   | .10 |     |     |   |   |     | .53  | .20  |      |      |      | .18  | 1.90 |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      |        |      |
| Yemassee          |               |   |     |     |     |   |   |     | .79  | .25  |      |      |      | .18  | 2.15 |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      |        |      |
| Yorkville         |               |   | .20 |     |     |   |   |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |      |      |      |     |     |      |      |      |        |      |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JANUARY, 1908.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

MARCH 3, 1908.

MONTHLY MEAN TEMPERATURE AND PRECIPITATION, WINTER 1961, JANUARY, 1962



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. XI. COLUMBIA, S. C., JANUARY, 1908. No. 1.

## GENERAL SUMMARY.

Temperature extremes were within the usual January limits. Maximum temperatures from  $70^{\circ}$  to  $76^{\circ}$  were recorded at seven stations, and all, except one, occurred in the eastern portion of the State. In other portions the maximum temperatures ranged from  $62^{\circ}$  to  $69^{\circ}$ . Freezing temperatures occurred over the entire State; the number of days with freezing temperatures ranging from three days in the coast regions to twenty days in the northwestern portion. The temperature was generally above the normal during the first week and on the first three days of the third decade when the highest temperatures of the month were recorded at all stations. The only cold wave of the month occurred on the 23d and 24th when the lowest temperatures were generally recorded.

The precipitation was heavy during the fore part of the month, causing floods in the principal rivers, and was light from the 12th to the 30th. On the 31st heavy precipitation occurred over the entire State, as mixed snow, sleet and rain in the northwestern portion, the rain freezing as it fell. In the eastern and southern portions the precipitation was all in the form of rain; in the western division a considerable portion was in the form of snow and sleet, generally melting as it fell. The rainfall was well distributed tho lightest in the extreme eastern portion where it was slightly below the normal; the rainfall was heaviest in the mountain districts.

There was excessive cloudiness during the first decade; the remainder of the month received more than the usual amount of sunshine. The prevailing winds were generally westerly.

## TEMPERATURE.

The mean temperature was  $44.2^{\circ}$  which is  $0.3^{\circ}$  above the normal. The highest local mean was  $50.4^{\circ}$  at Beaufort, the lowest was  $39.5^{\circ}$  at Greenville. The monthly extremes of temperature were  $76^{\circ}$  at Walhalla on the 23d, and  $17^{\circ}$  at Anderson on the 24th and at Dillon and Heath Springs on the 25th, making the State range  $59^{\circ}$ . The greatest local monthly range was  $57^{\circ}$  at Walhalla, the least was  $40^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $54.5^{\circ}$ , and of the daily minimum temperatures was  $33.9^{\circ}$ , making the average daily range  $20.6^{\circ}$ .

## PRECIPITATION.

The average precipitation was 4.86 inches, which is 1.33 inch above the normal. The greatest local monthly amount was 7.53 inches at Clemson College, the least was 2.49 inches at Charleston. The greatest 24-hour rainfall was 2.75 inches at St. Matthews on the 11th-12th. The average number of days with rain was 9, ranging from 3 days at Catawba, Chappells, Ferguson, Florence and St. George to 14 days at Summerville.

EXCESSIVE PRECIPITATION.—At Allendale on the 27th, 2.70 inches in 24 hours; at Greenville on the 11th-12th, 2.57 inches in 24 hours; at St. Matthews on the 11th-12th, 2.75 inches in 21 hours.

## WIND.

The prevailing direction of the wind was west at 15 stations, northwest at 10 stations, southwest at 9 stations, north and northeast at 5 stations each, and east and south at 2 stations each.

HIGH WINDS.—At Batesburg on the 26th, 27th; at Beaufort on the 13th, 24th, 26th, 31st; at Blackville on the 31st; at Bowman on the 7th, 10th, 11th, 12th, 13th, 23d, 27th, 31st; at Camden on the 7th, 8th, 11th, 12th, 13th, 23d, 24th, 26th, 31st; at Charleston on the 12th; at Cheraw on the 24th; at Clarks Hill on the 8th; at Columbia on the 12th, 26th; at Georgetown on the 7th, 12th, 23d, 26th; at Greenville, Spartanburg on the 26th; at Liberty on the 11th, 12th, 23d, 24th, 27th; at Newberry on the 13th, 23d, 26th; at Saluda on the 27th; at Society Hill on the 7th, 23d, 26th; at Summerville on the 6th, 7th, 8th, 12th, 26th, 27th; at Trial on the 11th, 12th, 23d, 24th, 25th, 26th, 27th; at Walhalla on the 23d; at Yorkville on the 12th, 13th, 26th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 13, of partly cloudy days was 8, and of cloudy days was 10.

## MISCELLANEOUS PHENOMENA.

LUNAR HALOS.—At Camden and Greenville on the 15th; at Columbia on the 15th, 21st; at Liberty on the 16th; at Santuc on the 16th, 21st, 25th; at Winnsboro on the 21st, 22d.

HAIL.—Hail occurred at Blackville and Society Hill on the 11th; at Cheraw on the 12th, 27th; at Heath Springs, Santuc, and Spartanburg on the 26th; at Liberty on the 26th, 31st.

DENSE FOGS.—Dense fogs of one hour, or longer, duration occurred at Blackville on the 21st; at Camden, Columbia, Liberty, Newberry on the 18th; at Georgetown on the 1st; at Pelzer on the 5th, 18th; and at Winnsboro on the 5th.

SLEET.—Sleet was reported at Aiken, Clarks Hill, on the 28th; at Due West, Liberty, Little Mountain, Santuc, Spartanburg, Yorkville on the 31st; at Newberry and Winnsboro on the 28th, 31st; at Saluda on the 7th, 28th, 31st.

THUNDERSTORMS.—Thunderstorms occurred in all parts



of the State on the 11th and 12th; they occurred in the central and western portions on the 26th and 27th, and in the coast regions only on the 31st.

**SNOW.**—Snow fell on four days; the heaviest snowfall was on the 7th. This snowstorm extended over the western and central portions only, with the greatest depth in the extreme northwestern portion decreasing to "trace" in the central portion. On the 26th occasional snow flurries occurred in the western counties, and on the 31st mixed snow, sleet and rain fell in the extreme northwestern portion, the snow melting as it fell.

BAROMETER AND WIND TABLE FOR JANUARY, 1908.

| STATIONS          | BAROMETER. |          |       |         |       | WIND            |                 |                   |        |            |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|--------|------------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. | Miles. | Direction. |
|                   |            |          |       |         |       |                 |                 |                   |        |            |
| Augusta, Ga.      | 30.09      | 30.48    | 20    | 29.40   | 12    | 5.243           | 7.0             | 57                | sw.    | 26         |
| Charleston.       | 30.08      | 30.46    | 20    | 29.17   | 7     | 8.820           | 11.9            | 44                | sw.    | 12         |
| Charlotte, N. C.  | 30.08      | 30.49    | 20    | 29.32   | 12    | 5.961           | 8.0             | 36                | sw.    | 26         |
| Columbia.         | 30.08      | 30.50    | 20    | 29.32   | 7     | 6.002           | 8.1             | 44                | sw.    | 26         |
| Savannah, Ga.     | 30.10      | 30.45    | 20    | 29.46   | 12    | 6.425           | 8.7             | 36                | w.     | 7          |
| Wilmington, N. C. | 30.09      | 30.50    | 20    | 29.18   | 7     | 6.659           | 9.0             | 42                | sw.    | 7          |
| Averages.         | 30.09      | 30.50    | 20    | 29.17   | 7     | 6.518           | 8.8             | 57                | sw.    | 26         |

RIVER GAGE READINGS, JANUARY, 1908.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 3.8   | 18.0     | 13    | 0.8     | 24    |
| Calhoun Falls    | 4.5   | 7.5      | 13    | 3.3     | *25   |
| Canden           | 16.1  | 29.3     | 14    | 8.2     | 26    |
| Catawba          | 5.3   | 16.8     | 13    | 2.5     | 26    |
| Chappells        | 7.0   | 16.5     | 14    | 3.7     | 28    |
| Cheraw           | 14.8  | 31.6     | 14    | 4.8     | *27   |
| Columbia         | 6.3   | 19.1     | 13    | 1.4     | 26    |
| Edgingham        | 8.1   | 13.1     | 18    | 5.5     | *30   |
| Ferguson         | 13.4  | 15.0     | 18    | 11.0    | 29    |
| St. Holly, N. C. | 2.6   | 9.5      | 13    | 1.8     | *22   |
| Pelzer           | 4.2   | 7.5      | 12    | 3.0     | 25    |
| Rimini           | 15.2  | 20.4     | *16   | 10.7    | 28    |
| Smith Mills      | 15.4  | 17.4     | *20   | 12.0    | 31    |

\* On other dates also.

#### ERRATA.

The following corrections should be made in the November, 1907, number of the Monthly Report: On page 85, at Florence, the mean temperature 53.2°, should be 53.4°. On page 86, at Florence, the maximum temperature on the

11th, 63° should be 65°, on the 12th, 45° should be 51°, on the 24th, 55° should be 61°, and the mean maximum 64.9° should be 65.4°.

CLIMATOLOGY OF GEORGETOWN, S. C.

#### Temperature.

| Year  | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1893. |      |      |      |       |      |      |      | 79   | 76    | 66   | 58   | 54   |       |
| 1894. | 53   | 53   | 61   | 64    | 72   | 77   | 77   | 79   | 77    | 66   | 52   | 49   |       |
| 1895. | 45   | 39   | 54   | 62    | 69   | 77   | 80   | 80   | 78    | 65   | 57   | 48   | 63    |
| 1896. | 45   | 49   | 55   | 66    | 77   | 79   | 82   | 80   | 73    | 63   | 61   | 46   | 63    |
| 1897. | 44   | 52   | 60   | 62    | 69   | 80   | 82   | 83   | 74    | 68   | 57   | 50   | 65    |
| 1898. | 53   | 48   | 63   | 62    | 75   | 80   | 81   | 80   | 79    | 60   | 56   | 50   | 66    |
| 1899. | 47   | 47   | 55   | 63    | 74   | 80   | 79   | 82   | 74    |      | 57   | 47   |       |
| 1900. | 46   | 47   | 54   | 63    | 69   | 77   | 82   | 83   | 76    | 69   | 56   | 46   | 64    |
| 1901. | 46   | 45   | 56   | 60    | 72   | 76   | 82   | 80   |       | 63   | 51   | 47   |       |
| 1902. | 49   |      | 59   | 63    | 74   | 81   |      | 80   |       | 68   | 60   | 50   |       |
| 1903. | 46   | 53   | 63   |       | 71   |      |      |      |       | 72   | 61   | 49   |       |
| 1904. | 42   |      |      |       |      |      | 79   | 78   | 74    | 65   | 51   | 48   |       |
| 1905. | 44   | 44   | 59   | 64    | 74   | 78   | 80   | 78   | 77    | 67   | 58   | 49   | 64    |
| 1906. | 51   | 48   | 54   | 65    | 70   | 78   | 78   | 80   | 78    | 65   | 56   | 50   | 64    |
| 1907. | 54   | 49   | 64   | 58    | 72   | 78   | 81   | 81   | 79    | 63   | 56   | 51   | 66    |
| M'ns  | 47.4 | 47.8 | 58.1 | 62.5  | 72.1 | 78.6 | 80.5 | 80.3 | 76.0  | 64.4 | 55.8 | 48.9 | 64.4  |

#### Precipitation.

| Year  | Jan. | Feb.  | Mar. | April | May  | June  | July  | Aug. | Sept. | Oct.  | Nov. | Dec. | Year. |
|-------|------|-------|------|-------|------|-------|-------|------|-------|-------|------|------|-------|
| 1893. |      |       |      |       |      | 12.50 | 7.40  |      | 4.79  | 4.33  | 0.86 | 4.67 |       |
| 1894. | 2.32 | 3.18  | 1.15 | 1.70  | 1.67 | 1.69  | 9.97  | 7.23 | 10.35 | 3.02  | 2.15 | 1.03 | 44.66 |
| 1895. | 7.58 | 2.00  | 5.75 | 3.80  | 5.25 | 2.12  | 8.20  | 7.33 | 1.70  | 0.20  | 2.73 | 3.80 | 50.46 |
| 1896. | 3.45 | 5.60  | 2.20 | 0.69  | 1.62 | 5.33  | 10.47 | 4.75 | 2.86  | 1.66  | 3.95 | 4.50 | 47.09 |
| 1897. | 1.30 | 10.50 | 3.07 | 5.85  | 2.75 | 4.80  | 4.90  | 4.30 | 3.60  | 3.80  | 1.00 | 1.10 | 46.97 |
| 1898. | 2.50 | 2.00  | 2.75 | 4.96  | 1.90 | 5.00  | 8.50  | 6.20 | T.    | 4.50  | 5.30 | 4.15 | 47.75 |
| 1899. | 3.00 | 3.70  | 2.75 | 4.25  | 3.50 | 3.00  | 4.50  | 7.77 | 2.25  |       |      | 1.60 |       |
| 1900. | 5.65 | 3.50  | 2.65 | 2.35  | 2.60 | 9.55  | 4.05  | 3.05 | 4.75  | 5.55  | 1.50 | 5.70 | 50.90 |
| 1901. | 5.15 | 5.40  | 4.27 | 2.95  | 7.50 | 11.65 | 13.25 | 7.40 | T.    | 3.10  | 4.85 | 4.75 |       |
| 1902. | 1.90 | 4.65  | 6.00 | 2.00  | 1.57 | 4.00  |       | 4.55 |       | 3.95  | 5.40 | 5.60 |       |
| 1903. | 7.10 | 4.50  | 6.00 |       | 2.75 |       |       |      | 2.50  | 3.00  | T.   |      |       |
| 1904. | 3.50 |       |      |       |      |       |       | 4.63 | 5.59  | 2.85  | 2.95 |      |       |
| 1905. | 1.80 | 3.72  | 2.84 | 5.09  | 4.39 | 2.11  | 8.56  | 2.72 | 1.71  | 3.05  | 1.20 | 8.90 | 46.09 |
| 1906. | 5.95 | 7.26  | 3.51 | 1.25  | 2.26 | 11.19 | 8.40  | 6.42 | 3.93  | 12.15 | 0.50 | 3.19 | 60.34 |
| 1907. | 1.91 | 1.90  | 1.21 | 6.03  | 3.54 | 4.88  | 8.66  | 6.51 | 5.04  | 0.80  | 2.16 | 3.93 | 46.53 |
| M'ns  | 3.91 | 4.45  | 3.40 | 3.41  | 3.18 | 5.94  | 8.07  | 5.60 | 3.80  | 3.49  | 2.34 | 4.08 | 51.67 |

#### Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |        |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|--------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year.  | Least Monthly. | Year. |
| January   | 54                    | 1907  | 42                   | 1904  | 7.58              | 1895   | 1.30           | 1897  |
| February  | 53                    | *1903 | 39                   | 1895  | 10.50             | 1897   | 1.00           | 1907  |
| March     | 64                    | 1907  | 54                   | *1900 | 6.00              | 1902-3 | 1.15           | 1894  |
| April     | 66                    | 1896  | 58                   | 1907  | 6.03              | 1907   | 0.69           | 1896  |
| May       | 77                    | 1896  | 69                   | *1900 | 7.50              | 1901   | 1.57           | 1902  |
| June      | 81                    | 1902  | 76                   | 1901  | 12.50             | 1893   | 1.09           | 1891  |
| July      | 83                    | 1907  | 77                   | 1894  | 13.25             | 1901   | 4.05           | 1900  |
| August    | 83                    | *1900 | 78                   | 1905  | 7.77              | 1899   | 2.72           | 1905  |
| September | 79                    | *1907 | 72                   | 1903  | 10.35             | 1894   | T.             | 1898  |
| October   | 69                    | 1900  | 60                   | 1898  | 12.15             | 1906   | T.             | 1901  |
| November  | 61                    | 1896  | 51                   | 1901  | 5.40              | 1902   | T.             | 1903  |
| December  | 54                    | 1893  | 46                   | *1900 | 8.90              | 1905   | 1.03           | 1894  |

\* And other years.

COMPARATIVE JANUARY DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          |          | Precipitation.   |                  |               |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |
|-----------|--------------|------------------|------------------|----------|----------|----------|------------------|------------------|---------------|----------------|--------------------------|----------------------------------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average. | Greatest Annual. |                  | Least Annual. |                |                          |                                  |
|           |              |                  |                  |          |          |          | Amount.          | Place.           | Amount.       | Place.         |                          |                                  |
| 1894..... | 47.9         | 57.6             | 40.6             | 77       | 19       | 3.15     | 5.19             | Holland          | 1.19          | Port Royal.    | 10                       | ne.                              |
| 1895..... | 44.2         | 52.3             | 36.8             | 80       | 5        | 7.31     | 10.29            | Conway.          | 4.23          | Port Royal.    | 13                       | sw.                              |
| 1896..... | 43.8         | 53.5             | 34.2             | 72       | 9        | 3.02     | 4.54             | Longshore.       | 1.51          | Cheraw.        | 6                        | ne.                              |
| 1897..... | 42.2         | 51.4             | 32.7             | 76       | 3        | 2.29     | 4.80             | Holland.         | 0.13          | Batesburg.     | 7                        | nw.                              |
| 1898..... | 49.2         | 59.3             | 39.1             | 82       | 8        | 1.80     | 4.06             | Central.         | 0.19          | Charleston.    | 6                        | sw.                              |
| 1899..... | 44.1         | 54.2             | 34.7             | 78       | 17       | 4.72     | 6.75             | Holland.         | 2.84          | Charleston.    | 11                       | n.                               |
| 1900..... | 44.0         | 54.6             | 33.5             | 75       | 3        | 2.43     | 5.65             | Georgetown.      | 1.58          | Stateburg.     | 8                        | nw.                              |
| 1901..... | 45.1         | 55.3             | 34.9             | 81       | 18       | 3.55     | 5.60             | Liberty.         | 1.20          | Pinopolis.     | 9                        | nw.                              |
| 1902..... | 42.4         | 53.0             | 31.8             | 80       | 11       | 2.05     | 4.18             | Longshore.       | 0.36          | Blackville.    | 5                        | sw.                              |
| 1903..... | 43.7         | 52.4             | 35.0             | 77       | 13       | 3.85     | 7.10             | Georgetown.      | 2.40          | Walhalla.      | 11                       | w.                               |
| 1904..... | 40.2         | 50.5             | 30.0             | 74       | 8        | 2.97     | 4.78             | Summerville.     | 0.82          | Bennettsville. | 8                        | n.                               |
| 1905..... | 41.4         | 51.5             | 31.2             | 77       | 8        | 2.00     | 4.84             | Walhalla.        | 0.30          | St. George.    | 7                        | w.                               |
| 1906..... | 47.0         | 56.1             | 37.8             | 83       | 12       | 5.85     | 11.69            | Liberty.         | 3.52          | Bennettsville. | 11                       | ne.                              |
| 1907..... | 53.4         | 64.1             | 42.6             | 89       | 18       | 6.71     | 1.91             | Georgetown.      | T.            | Yorkville.     | 4                        | sw.                              |
| 1908..... | 44.2         | 54.5             | 33.9             | 76       | 17       | 4.86     | 7.53             | Clemson College. | 2.49          | Charleston.    | 9                        | w.                               |



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1908.

|                            |              | Temperature in degrees Fahrenheit |                           |      |                              |         |      |        |      |                   |       | Precipitation in inches      |                         |                              |                          | Sky                      |                         |                       |                           |  |  |
|----------------------------|--------------|-----------------------------------|---------------------------|------|------------------------------|---------|------|--------|------|-------------------|-------|------------------------------|-------------------------|------------------------------|--------------------------|--------------------------|-------------------------|-----------------------|---------------------------|--|--|
| STATIONS                   | COORDINATES  | Elevation<br>feet                 | Length of record<br>years | Mean | Departure from<br>the normal | Highest | Date | Lowest | Date | Exceeds<br>normal | Total | Departure from<br>the normal | Greatest in 24<br>hours | Total snow<br>fall in inches | Number of days<br>frozen | Number of days<br>cloudy | Number of days<br>clear | Remarks               |                           |  |  |
| Aiken                      | Aiken        | 505                               | 24                        | 49.2 | +1.2                         | 68      | 3    | 27     | 24   | 28                | 5.57  | +1.54                        | 2.26                    | 0                            | 6                        | 14                       | 9                       | 8                     | sw. C. F. McGahan, M. D.  |  |  |
| Allendale                  | Barnwell     | 186                               | 20                        | 47.8 | +2.5                         | 68      | 19   | 25     | *24  | 37                | 5.97  | +2.81                        | 2.70                    | 0                            | 4                        | 21                       | 0                       | 16                    | A. R. Hiers.              |  |  |
| Anderson                   | Anderson     | 704                               | 20                        | 44.0 | +0.3                         | 67      | 22   | 17     | 24   | 44                | 4.85  | +0.31                        | 1.38                    | T                            | 11                       | 16                       | 1                       | 14                    | W. H. Russell             |  |  |
| Angusta, Ga.               | Richmond     | 134                               | 3                         | 45.6 | -0.3                         | 66      | 1    | 24     | 24   | 25                | 7.23  | +3.68                        | 2.64                    | 0                            | 10                       | 15                       | 10                      | 8                     | Weather Bureau.           |  |  |
| Barksdale                  | Laurens      | 680                               | 7                         | 47.8 | +2.6                         | 75      | 1    | 22     | 23   | 40                | 6.56  | +3.60                        | 2.27                    | 0.2                          | 9                        | 12                       | 8                       | 11                    | J. T. Garrett             |  |  |
| Batesburg                  | Lexington    | 656                               | 20                        | 42.9 | +1.1                         | 64      | 22   | 19     | 24   | 13                | 4.48  | +0.50                        | 2.08                    | T                            | 5                        | 14                       | 6                       | 11                    | E. J. Hale                |  |  |
| Beaufort                   | Beaufort     | 20                                | 22                        | 50.4 | +0.4                         | 72      | 19   | 26     | 24   | 37                | 5.50  | +2.58                        | 2.30                    | 0                            | 12                       | 10                       | 10                      | 11                    | S. M. Benton              |  |  |
| Bennettsville              | Marlboro     | 151                               | 7                         | 43.6 | 0                            | 68      | 22   | 19     | 25   | 44                | 1.77  | 1.70                         | 1.20                    | 0                            | 7                        | 18                       | 4                       | 9                     | C. S. McCall              |  |  |
| Blackville                 | Barnwell     | 206                               | 20                        | 47.8 | +2.6                         | 75      | 1    | 22     | 23   | 40                | 6.56  | +3.60                        | 2.27                    | 0.2                          | 9                        | 12                       | 8                       | 11                    | nw. Miss M. E. Lange      |  |  |
| Blairs                     | Fairfield    | 293                               | 3                         | 46.6 | 0                            | 70      | *1   | 21     | 25   | 37                | 6.02  | 5.18                         | 2.24                    | 0                            | 5                        | 12                       | 8                       | 11                    | nw. T. S. McMeekin        |  |  |
| Bowman                     | Orangeburg   | 160                               | 3                         | 46.6 | 0                            | 70      | *1   | 21     | 25   | 37                | 6.02  | 5.18                         | 2.24                    | 0                            | 5                        | 12                       | 8                       | 11                    | nw. B. O. Evans           |  |  |
| Calhoun Falls              | Abbeville    | 508                               | 15                        | 43.6 | 0                            | 65      | 22   | 20     | 25   | 30                | 4.86  | 5.00                         | 2.15                    | 0                            | 6                        | 12                       | 5                       | 14                    | ne. P. J. Pfeiffer        |  |  |
| Camden (1)                 | Kershaw      | 222                               | 42                        | 43.6 | 0                            | 65      | 22   | 20     | 25   | 30                | 4.86  | 5.00                         | 2.15                    | 0                            | 6                        | 12                       | 5                       | 14                    | ne. J. B. Mickle          |  |  |
| Camden (2)                 | Kershaw      | 222                               | 42                        | 43.6 | 0                            | 65      | 22   | 20     | 25   | 30                | 4.86  | 5.00                         | 2.15                    | 0                            | 6                        | 12                       | 5                       | 14                    | ne. W. C. Brown           |  |  |
| Catawba                    | York         | 402                               | 3                         | 46.6 | 0                            | 70      | *1   | 21     | 25   | 37                | 6.02  | 5.18                         | 2.24                    | 0                            | 5                        | 12                       | 8                       | 11                    | nw. Jas. C. Paris         |  |  |
| Chapin                     | Newberry     | 402                               | 3                         | 46.6 | 0                            | 70      | *1   | 21     | 25   | 37                | 6.02  | 5.18                         | 2.24                    | 0                            | 5                        | 12                       | 8                       | 11                    | nw. W. R. Zimmerman       |  |  |
| Charleston                 | Charleston   | 48                                | 39                        | 49.4 | +0.1                         | 67      | 4    | 27     | 24   | 27                | 2.49  | 0.96                         | 0.86                    | 0                            | 9                        | 11                       | 13                      | 7                     | nw. Weather Bureau        |  |  |
| Charlotte, N. C.           | Mecklenburg  | 808                               | 30                        | 40.5 | +0.1                         | 63      | 22   | 21     | 24   | 26                | 6.18  | -1.89                        | 1.76                    | 0.8                          | 7                        | 11                       | 6                       | 14                    | sw. Weather Bureau        |  |  |
| Cheraw (1)                 | Chesterfield | 144                               | 20                        | 40.9 | -1.3                         | 64      | 22   | 18     | 25   | 32                | 4.16  | +1.00                        | 1.82                    | 0                            | 6                        | 10                       | 6                       | 15                    | n. W. R. Godfrey          |  |  |
| Cheraw (2)                 | Chesterfield | 144                               | 20                        | 40.9 | -1.3                         | 64      | 22   | 18     | 25   | 32                | 4.16  | +1.00                        | 1.82                    | 0                            | 6                        | 10                       | 6                       | 15                    | n. W. R. Godfrey          |  |  |
| Clark Hill                 | Edgefield    | 500                               | 6                         | 43.8 | 0                            | 64      | *22  | 18     | 24   | 31                | 6.71  | 2.03                         | T                       | 7                            | 11                       | 3                        | 17                      | nw. Jno. H. Powe      |                           |  |  |
| Clemson College            | Oconee       | 850                               | 17                        | 40.2 | -0.5                         | 62      | 22   | 20     | 24   | 32                | 7.53  | +2.54                        | 1.95                    | 1.0                          | 8                        | 17                       | 6                       | 8                     | sw. Wm. S. Middleton      |  |  |
| Columbia                   | Richland     | 351                               | 21                        | 44.6 | +0.5                         | 66      | 22   | 23     | 24   | 32                | 6.27  | +2.98                        | 2.24                    | T                            | 10                       | 10                       | 12                      | 9                     | sw. Jno. S. Hook          |  |  |
| Conway                     | Horry        | 25                                | 16                        | 45.8 | 0                            | 68      | 21   | 25     | 40   | 2.60              | -1.00 | 1.20                         | 0                       | 7                            | 14                       | 1                        | 16                      | sw. Central Office    |                           |  |  |
| Darlington                 | Darlington   | 175                               | 13                        | 42.9 | 0                            | 66      | *20  | 17     | 25   | 34                | 2.21  | 1.25                         | 0                       | 6                            | 14                       | 3                        | 14                      | sw. P. C. Quattlebaum |                           |  |  |
| Dillon                     | Marion       | 100                               | 4                         | 42.9 | 0                            | 66      | *20  | 17     | 25   | 34                | 2.21  | 1.25                         | 0                       | 6                            | 14                       | 3                        | 14                      | sw. D. C. McCall      |                           |  |  |
| Due West                   | Abbeville    | 730                               | 7                         | 42.6 | 0                            | 66      | 22   | 20     | 24   | 28                | 3.65  | 1.20                         | 0                       | 7                            | 14                       | 3                        | 14                      | sw. A. E. Rowell      |                           |  |  |
| Edgingham                  | Florence     | 106                               | 16                        | 45.8 | 0                            | 66      | 22   | 20     | 24   | 28                | 3.65  | 1.20                         | 0                       | 7                            | 14                       | 3                        | 14                      | sw. Rev. O. Y. Bonner |                           |  |  |
| Ferguson                   | Florence     | 136                               | 20                        | 45.0 | +1.7                         | 66      | 22   | 20     | 25   | 34                | 3.60  | +1.03                        | 2.00                    | 0                            | 3                        | 14                       | 9                       | 8                     | nw. H. B. McCall          |  |  |
| Florence                   | Florence     | 136                               | 20                        | 45.0 | +1.7                         | 66      | 22   | 20     | 25   | 34                | 3.60  | +1.03                        | 2.00                    | 0                            | 3                        | 14                       | 9                       | 8                     | nw. John T. Bowers        |  |  |
| Georgetown                 | Georgetown   | 12                                | 15                        | 47.8 | +0.9                         | 67      | *2   | 25     | 23   | 42                | 3.63  | -0.31                        | 1.50                    | 0                            | 4                        | 13                       | 10                      | 8                     | nw. H. K. Gilbert         |  |  |
| Greenville                 | Greenville   | 980                               | 10                        | 39.5 | +0.7                         | 64      | 22   | 20     | 24   | 33                | 5.31  | +0.52                        | 2.57                    | 2.5                          | 7                        | 15                       | 0                       | 16                    | sw. Wm. Alden James       |  |  |
| Greenwood                  | Greenwood    | 671                               | 20                        | 40.2 | -0.5                         | 63      | 22   | 19     | 24   | 32                | 4.90  | +1.30                        | 2.30                    | 0                            | 4                        | 17                       | 0                       | 14                    | sw. Mrs. S. A. Crittenden |  |  |
| Heath Spring               | Lancaster    | 568                               | 7                         | 41.2 | 0                            | 66      | *22  | 17     | 25   | 32                | 6.26  | 1.80                         | 0                       | 6                            | 13                       | 7                        | 11                      | nw. M. M. Calhoun     |                           |  |  |
| Kingstree (1)              | Williamsburg | 54                                | 20                        | 49.6 | +3.8                         | 68      | *7   | 22     | 25   | 39                | 3.42  | +0.44                        | 2.00                    | 0                            | 8                        | 16                       | 3                       | 12                    | nw. J. A. Wenner          |  |  |
| Kingstree (2)              | Williamsburg | 54                                | 20                        | 49.6 | +3.8                         | 68      | *7   | 22     | 25   | 39                | 3.42  | +0.44                        | 2.00                    | 0                            | 8                        | 16                       | 3                       | 12                    | nw. J. A. Scott           |  |  |
| Liberty                    | Pickens      | 900                               | 14                        | 40.4 | -0.3                         | 65      | 22   | 19     | 25   | 34                | 6.25  | +0.91                        | 1.75                    | 2.0                          | 10                       | 15                       | 9                       | 7                     | sw. A. O. Matthews        |  |  |
| Little Mountain            | Newberry     | 630                               | 15                        | 44.4 | +0.3                         | 65      | 22   | 20     | 24   | 32                | 5.88  | +2.67                        | 1.82                    | 0                            | 10                       | 18                       | 3                       | 10                    | sw. Jno. T. Boggs         |  |  |
| Newberry                   | Newberry     | 502                               | 4                         | 42.1 | +0.1                         | 65      | 22   | 20     | 24   | 35                | 7.23  | +3.17                        | 2.30                    | 0.5                          | 9                        | 13                       | 4                       | 14                    | sw. John M. Sene, M. D.   |  |  |
| Pelzer                     | Anderson     | 873                               | 3                         | 42.1 | +0.1                         | 65      | 22   | 20     | 24   | 35                | 7.23  | +3.17                        | 2.30                    | 0.5                          | 9                        | 13                       | 4                       | 14                    | sw. W. G. Peterson        |  |  |
| Pinopolis                  | Berkeley     | 54                                | 15                        | 48.8 | +3.6                         | 70      | *12  | 26     | *15  | 38                | 2.90  | +0.15                        | 1.50                    | 0                            | 3                        | 21                       | 0                       | 7                     | sw. John M. Ward          |  |  |
| St. George                 | Dorchester   | 109                               | 20                        | 48.8 | +3.6                         | 70      | *12  | 26     | *15  | 38                | 2.90  | +0.15                        | 1.50                    | 0                            | 3                        | 21                       | 0                       | 7                     | sw. E. P. Ravenel         |  |  |
| St. Matthews               | Orangeburg   | 269                               | 20                        | 43.8 | -1.6                         | 65      | 22   | 22     | *24  | 28                | 4.99  | +1.92                        | 2.75                    | 0                            | 4                        | 23                       | 0                       | 8                     | sw. G. T. Lewis           |  |  |
| Saluda                     | Saluda       | 536                               | 6                         | 42.4 | 0                            | 66      | 22   | 18     | 24   | 38                | 5.77  | 1.63                         | T                       | 10                           | 15                       | 4                        | 12                      | sw. J. S. Warramaker  |                           |  |  |
| Santee                     | Union        | 512                               | 14                        | 41.5 | 0                            | 64      | 22   | 19     | 25   | 33                | 6.41  | +3.48                        | 2.08                    | T                            | 9                        | 12                       | 7                       | 12                    | sw. Alvin Etheridge       |  |  |
| Savannah, Ga.              | Chatham      | 71                                | 39                        | 50.6 | +0.7                         | 68      | 1    | 28     | 24   | 29                | 4.19  | 1.06                         | 1.74                    | 0                            | 10                       | 13                       | 6                       | 12                    | sw. E. W. Jeter           |  |  |
| Smith Mills                | Williamsburg | 62                                | 13                        | 42.4 | -0.3                         | 62      | 22   | 20     | 24   | 35                | 5.19  | +2.12                        | 2.04                    | 0                            | 5                        | 15                       | 5                       | 11                    | sw. Weather Bureau        |  |  |
| Society Hill               | Darlington   | 192                               | 17                        | 42.4 | -0.3                         | 62      | 22   | 20     | 24   | 35                | 5.19  | +2.12                        | 2.04                    | 0                            | 5                        | 15                       | 5                       | 11                    | sw. W. G. Walker          |  |  |
| Spartanburg                | Spartanburg  | 875                               | 17                        | 40.6 | -0.1                         | 65      | 21   | 20     | 24   | 37                | 6.67  | +3.19                        | 2.05                    | 0                            | 7                        | 16                       | 0                       | 15                    | sw. J. J. Lucas           |  |  |
| Stateburg                  | Sumter       | 500                               | 31                        | 45.2 | +0.1                         | 66      | 22   | 22     | 24   | 31                | 6.09  | +2.72                        | 2.12                    | 0                            | 6                        | 10                       | 13                      | 8                     | sw. F. P. Robinson        |  |  |
| Summerville                | Dorchester   | 75                                | 11                        | 48.0 | +3.3                         | 68      | *1   | 21     | 25   | 40                | 4.18  | +0.92                        | 2.16                    | 0                            | 14                       | 9                        | 11                      | 11                    | sw. W. W. Anderson, M. D. |  |  |
| Trenton                    | Edgefield    | 620                               | 15                        | 42.4 | -3.4                         | 62      | 4    | 20     | 24   | 29                | 5.50  | +2.02                        | 1.70                    | 0                            | 10                       | 15                       | 6                       | 10                    | sw. Miss E. H. Gadsden    |  |  |
| Trial                      | Berkeley     | 85                                | 22                        | 46.6 | +0.1                         | 70      | 22   | 20     | 25   | 40                | 6.07  | +2.40                        | 2.35                    | 0                            | 9                        | 13                       | 8                       | 10                    | sw. C. A. Long            |  |  |
| Walhalla                   | Oconee       | 1061                              | 17                        | 42.0 | +0.8                         | 76      | 23   | 19     | 24   | 37                | 5.00  | 2.29                         | 0                       | 10                           | 15                       | 9                        | 7                       | sw. Etsell Gaillard   |                           |  |  |
| Walterboro                 | Colleton     | 69                                | 5                         | 49.8 | 0                            | 72      | *1   | 21     | 25   | 41                | 4.50  | 2.29                         | 0                       | 10                           | 15                       | 9                        | 7                       | sw. W.                |                           |  |  |
| Wilmington, N. C.          | New Hanover  | 52                                | 39                        | 45.6 | 0                            | 65      | 23   | 23     | 25   | 29                | 2.92  | 0.58                         | 1.40                    | 0                            | 9                        | 12                       | 10                      | 9                     | sw. Miss Jessie Douthit   |  |  |
| Winnboro                   | Fairfield    | 545                               | 19                        | 41.8 | -0.8                         | 63      | 22   | 21     | 24   | 27                | 3.90  | +0.61                        | 2.00                    | 0                            | 7                        | 15                       | 12                      | 4                     | sw. J. A. Westenberg      |  |  |
| Winthrop College           | York         | 640                               | 9                         | 42.4 | 0                            | 65      | 22   | 20     | *24  | 31                | 5.39  | 1.90                         | T                       | 8                            | 15                       | 7                        | 9                       | sw. Weather Bureau    |                           |  |  |
| Yemassee                   | Beaufort     | 23                                | 13                        | 46.1 | -0.8                         | 66      | *22  | 24     | 25   | 32                | 3.67  | +0.90                        | 1.45                    | 0                            | 6                        | 15                       | 3                       | 13                    | sw. John W. Seigler       |  |  |
| Yorkville                  | York         | 680                               | 20                        | 42.3 | -0.4                         | 69      | 22   | 20     | 24   | 31                | 6.45  | +2.65                        | 2.12                    | 0                            | 8                        | 12                       | 7                       | 12                    | sw. E. R. Rivers          |  |  |
| Means, extremes, and dates |              |                                   |                           | 44.2 | +0.3                         | 76      | 23   | 17     | *24  | 44                | 4.86  | +1.33                        | 2.70                    | 0.1                          | 9                        | 13                       | 8                       | 10                    | sw. J. G. Hutson          |  |  |
|                            |              |                                   |                           |      |                              |         |      |        |      |                   |       |                              |                         |                              |                          |                          |                         |                       | sw. J. R. Schorb          |  |  |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard.  
\* On other dates also. a indicates 1 day missing, b, 2 days, etc. ° The state of sky at 8 a.m. not used in averages. † For 25 days.



CITATIONS.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day in which it nearly always occurs.

+ The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.





## DAILY PRECIPITATION FOR SOUTH CAROLINA. JANUARY, 1908.

| STATIONS.         | Day of Month. |     |   |     |      |      |      |      |     |     |      |      |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      | Total. |      |
|-------------------|---------------|-----|---|-----|------|------|------|------|-----|-----|------|------|------|-----|----|----|------------------|-----|-----|----|-----|-----|-----|----|----|----|-----|-----|-----|-----|------|--------|------|
|                   | 1             | 2   | 3 | 4   | 5    | 6    | 7    | 8    | 9   | 10  | 11   | 12   | 13   | 14  | 15 | 16 | 17               | 18  | 19  | 20 | 21  | 22  | 23  | 24 | 25 | 26 | 27  | 28  | 29  | 30  | 31   |        |      |
| Aiken             |               |     |   |     |      |      | 2.20 |      |     |     | 1.55 | .45  |      |     |    |    | .07              |     |     |    |     |     |     |    |    |    |     |     |     |     | .60  | 5.57   |      |
| Allendale         |               |     |   |     | .62  |      | 1.30 |      |     |     |      |      | 1.35 |     |    |    | 2.70             |     |     |    |     |     |     |    |    |    |     |     |     |     |      | 5.97   |      |
| Anderson          |               |     |   | .50 | .34  |      | .97  |      |     |     | 1.38 | .04  |      |     |    |    | T. <sup>04</sup> | .03 |     |    |     | T.  |     |    |    |    | .18 | .41 | .07 | .17 | .75  | 4.85   |      |
| Augusta, Ga.      |               |     |   | .35 | .18  | .24  | 1.82 |      |     |     | 1.71 | .08  | T.   |     |    |    |                  |     |     |    |     |     |     |    |    |    | T.  | .17 | .01 |     | 2.64 | 7.23   |      |
| Barksdale         |               |     |   |     |      |      |      |      |     |     |      |      | 2.08 | T.  |    |    | T.               |     |     |    |     |     |     |    |    |    |     | .12 |     | T.  |      | 4.48   |      |
| Batesburg         |               |     |   | .59 |      |      | 1.48 | .21  |     |     |      | 2.30 | .09  | .01 |    |    |                  | T.  | .14 |    |     | .02 |     |    |    |    | .02 | .06 |     | .03 | 1.51 | 5.50   |      |
| Beaufort          |               |     |   | .39 |      | .13  | .80  |      |     |     | 1.76 |      |      |     |    |    | T.               |     |     |    |     |     |     |    |    |    | .25 |     | .04 |     | 1.27 | 4.77   |      |
| Bennettsville     |               |     |   | .75 |      |      | 1.50 | .02  |     | .15 | 2.05 |      |      |     |    |    | .01              |     |     |    |     |     |     |    |    |    | .10 |     | .03 |     | 2.27 | 6.56   |      |
| Blackville        |               |     |   | .43 |      | .76  |      | 1.44 | .44 |     |      | 2.24 |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     | .30 |     |     |      | 5.18   |      |
| Blairs            |               |     |   |     | .34  |      | .06  |      |     |     | 2.05 | 1.06 | .07  |     |    |    | T.               | .12 |     |    |     | T.  |     |    |    |    | .08 | .04 |     | .52 | 1.68 | 6.02   |      |
| Bowman            |               |     |   |     | .66  |      | 2.15 | .27  |     |     | .18  | 1.56 |      |     |    |    |                  |     |     |    |     | T.  |     |    |    |    | .18 |     |     |     |      | 5.00   |      |
| Calhoun Falls     | T.            |     |   | .68 |      |      | 1.33 |      |     |     | 1.81 | .41  |      |     |    |    | T.               | T.  |     |    |     | T.  |     |    |    |    | .05 | .38 | T.  |     | .20  | 4.86   |      |
| Camden (1)        |               |     |   |     |      |      | .78  | .10  |     |     |      | 2.20 |      | T.  |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      | 3.84   |      |
| Camden (2)        |               |     |   | .74 |      |      | 1.60 | .40  |     |     |      | 2.20 |      | T.  |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      | 4.20   |      |
| Catawba           |               |     |   |     | .02  |      | 1.39 |      |     |     |      | 1.98 |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      | 3.39   |      |
| Chappells         |               |     |   |     | .31  | .19  | .47  |      |     |     |      | .86  |      |     |    |    | T.               | .05 |     |    |     | T.  |     |    |    |    | .04 |     | .01 |     | .52  | 2.49   |      |
| Charleston        |               |     |   |     | .89  |      | 1.54 |      |     |     | 1.56 | .20  | T.   |     |    |    |                  | T.  |     |    |     |     |     |    |    |    | .55 | .12 | T.  |     | 1.32 | 6.18   |      |
| Charlotte, N. C.  |               |     |   |     | .91  |      | .87  | .05  |     |     |      | 1.82 | .06  |     |    |    | T.               | T.  | T.  |    |     |     |     |    |    |    |     | .42 |     | .03 |      | 4.16   |      |
| Cheraw (1)        |               |     |   |     | .89  |      | .78  | .20  |     |     |      | 1.74 | .20  |     |    |    | T.               | T.  | T.  |    |     |     |     |    |    |    |     |     |     | .02 |      | 4.17   |      |
| Cheraw (2)        |               |     |   |     | 1.06 |      | 2.03 |      |     |     | 1.52 | .22  |      |     |    |    | T.               | .05 |     |    |     | T.  |     |    |    |    | .07 |     | T.  |     | 1.76 | 6.71   |      |
| Clark's Hill      |               |     |   |     |      |      | 1.86 |      |     |     | 1.41 | .73  |      |     |    |    |                  |     |     |    |     | T.  |     |    |    |    | .46 |     |     | .15 | 1.95 | 7.53   |      |
| Clemson College   |               | .05 |   | .92 |      |      | 1.86 |      |     |     | 2.12 | .12  |      |     |    |    | T.               |     |     |    |     | T.  |     |    |    |    | .02 | T.  | .01 | .01 | 1.76 | 6.27   |      |
| Columbia          |               |     |   | .62 | .08  | .11  | 1.42 |      |     |     |      | 1.20 |      |     |    |    |                  |     |     |    | .10 |     |     |    |    |    |     | .14 |     |     |      | 2.60   |      |
| Conway            |               |     |   |     | .36  | .05  | .70  | .05  |     |     |      |      |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      |        |      |
| Darlington        |               |     |   |     |      |      |      |      |     |     |      |      |      |     |    |    | T.               | T.  |     |    |     |     |     |    |    |    |     |     |     |     |      |        |      |
| Dillon            |               |     |   |     |      |      | .57  |      |     |     | 1.25 | .10  |      |     |    |    | T.               | T.  |     |    |     |     |     |    |    |    | T.  | .17 | T.  | .01 | .11  | 2.21   |      |
| Due West          |               |     |   | .18 | .22  |      | 1.18 |      |     |     | 1.20 | .35  |      |     |    |    |                  |     |     |    |     |     |     |    |    |    | .10 |     |     |     | .42  | 3.65   |      |
| Edgingham         |               |     |   |     | .50  |      | .75  | .25  |     |     |      | .98  | .90  |     |    |    |                  |     |     |    |     |     |     |    |    |    |     | .35 |     |     |      | 3.73   |      |
| Ferguson          |               |     |   | .48 |      |      | .88  |      |     |     |      | 2.38 |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      | 3.74   |      |
| Florence          |               |     |   |     |      |      | 1.50 |      |     |     |      | 2.00 |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     | .10 |     |     |      | 3.60   |      |
| Georgetown        |               |     |   |     | T.   | .30  | .60  |      |     |     | 1.50 | T.   |      |     |    |    | T.               |     |     |    |     |     |     |    |    |    | T.  |     |     |     | 1.23 | 3.63   |      |
| Greenville        | T.            |     |   |     | .99  |      | .83  | .05  |     |     | .02  | 2.57 | .05  |     |    |    |                  |     |     |    |     |     |     |    |    |    |     | .80 |     |     | 5.31 |        |      |
| Greenwood         |               |     |   |     | .85  |      | 1.40 |      |     |     |      | 2.30 |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     | .35 |     |     |      | 4.90   |      |
| Heath Spring      |               |     |   | .82 |      |      | 1.44 |      |     |     | 1.80 | .28  | T.   |     |    |    | T.               |     |     |    |     |     |     |    |    |    | .30 |     | .01 |     | 1.61 | 6.26   |      |
| Kingstree (1)     |               |     |   |     | .50  |      | .64  | .03  |     |     |      | 2.00 | .06  |     |    |    |                  | .02 | .02 |    |     |     |     |    |    |    |     | .15 |     | T.  |      | 3.42   |      |
| Kingstree (2)     |               |     |   |     | .68  |      | .67  |      |     |     |      | 1.98 |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     | .15 |     |     |      | 3.48   |      |
| Liberty           | .05           |     |   | .80 | .30  |      | 1.10 |      |     |     | 1.20 | .15  |      |     |    |    | .10              |     |     |    |     | T.  |     |    |    |    | .45 | .35 | T.  |     | 1.75 | 6.25   |      |
| Little Mountain   |               |     |   | .35 | .44  |      | 1.82 |      |     |     | 1.78 | .34  |      |     |    |    | .04              |     |     |    |     |     |     |    |    |    | .11 | .58 | T.  | .08 | .34  | 5.88   |      |
| Newberry          |               |     |   | .82 |      | 1.33 | .25  |      |     |     | 2.30 | .04  |      |     |    |    | .02              |     |     |    |     |     |     |    |    |    | .22 |     | .06 |     | 2.19 | 7.23   |      |
| Pelzer            |               | .20 |   |     | .94  |      | .86  | .04  |     |     | .12  | 2.10 |      |     |    |    |                  | .06 |     |    |     |     |     |    |    |    |     | .70 |     | .06 |      | 5.08   |      |
| Pinopolis         |               |     |   |     |      |      |      |      |     |     |      |      |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      |        |      |
| Pinopolis         |               |     |   |     | .50  |      | .90  |      |     |     | 1.50 |      |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      | 2.90   |      |
| St. George        |               |     |   |     | 1.06 |      | 1.14 |      |     |     |      | 2.75 | .04  |     |    |    |                  |     |     |    |     |     |     |    |    |    |     |     |     |     |      | 4.99   |      |
| St. Matthews      |               |     |   |     | .60  | T.   | 1.63 |      |     |     | 2.00 | .56  | .04  |     |    |    | .02              |     |     |    |     |     |     |    |    |    | T.  | .17 | T.  | .06 | .58  | 5.77   |      |
| Saluda            |               |     |   | .11 | .60  |      | 1.63 |      |     |     | 2.08 | .42  |      |     |    |    | T.               |     |     |    |     |     |     |    |    |    | .16 | .34 | .05 |     | .63  | 6.41   |      |
| Santee            |               |     |   | .18 | .75  |      | 1.80 |      |     |     |      | 2.08 | .01  |     |    |    | T.               |     |     |    |     | T.  | T.  |    |    |    | .04 | .01 | .04 |     | .85  | 4.19   |      |
| Savannah, Ga.     |               |     |   |     | .46  | .50  | .48  |      |     |     | 1.74 | .01  |      |     |    |    | .06              |     |     |    |     |     |     |    |    |    |     |     |     |     |      |        |      |
| Smith Mills       | .12           |     |   |     |      | .04  | T.   | .30  |     |     |      | 2.23 |      | T.  |    |    |                  |     | .12 | T. |     |     |     |    |    |    |     |     |     | T.  | T.   | 2.81   |      |
| Society Hill      |               |     |   | .75 |      | .71  |      |      |     |     | 2.04 |      |      |     |    |    |                  |     |     |    |     |     |     |    |    |    |     | .22 |     |     |      | 1.47   | 5.19 |
| Spartanburg       |               |     |   | .95 |      | .95  | .20  |      |     |     |      | 2.05 | .10  |     |    |    |                  |     |     |    |     |     |     |    |    |    |     | .67 |     |     | 1.75 | 6.67   |      |
| Stateburg         |               |     |   | .62 |      |      | 1.58 |      |     |     | 1.84 | .28  |      |     |    |    |                  |     |     |    |     |     | .02 |    |    |    | T.  |     |     |     |      | 1.75   | 6.09 |
| Summerville       |               | .02 |   | .47 |      | .78  |      |      |     |     | 2.16 | .20  | .06  |     |    |    | .09              | .02 |     |    |     | .62 | .01 |    |    |    | .03 | .10 |     | .01 | .21  | 4.18   |      |
| Trenton           |               |     |   | .20 | .60  |      | 1.88 |      |     |     | 1.70 | .18  |      |     |    |    | .07              |     |     |    |     |     |     |    |    |    | .08 | .05 | .07 |     | .67  | 5.50   |      |
| Trial             |               |     |   | .45 |      | .83  |      |      |     |     | 2.05 | .33  | T.   |     |    |    |                  | .02 |     |    |     |     |     |    |    |    | .22 |     | .02 |     | 2.15 | 6.07   |      |
| Wallhalla         |               |     |   |     |      |      |      |      |     |     | 2.00 | .70  |      |     |    |    | .10              |     |     |    |     |     |     |    |    |    |     |     |     |     |      |        |      |
| Walterboro        |               |     |   | .38 |      | .96  |      |      |     |     | 2.29 | .09  | .04  |     |    |    | T.               | .09 |     |    |     |     | .02 |    |    |    | T.  | .20 | .08 |     | .24  | 4.50   |      |
| Wilmington, N. C. |               |     |   | .23 | .08  | .47  | .42  |      |     |     | 1.40 | T.   |      |     |    |    | T.               | .09 |     |    |     |     |     |    |    |    | .03 | .05 | T.  |     | .15  | 2.92   |      |
| Winnshoro         |               |     |   | .55 |      | .60  |      |      |     |     | 2.00 | .20  |      |     |    |    | T.               |     |     |    |     |     |     |    |    |    | .30 |     | .05 |     | .20  | 3.90   |      |
| Winthorp College  |               |     |   | .20 | .60  |      | 1.90 |      |     |     | 1.80 | .43  |      |     |    |    | T.               |     |     |    |     |     |     |    |    |    | .21 | .12 | T.  |     | .13  | 5.39   |      |
| Yemassee          |               |     |   | .65 |      | 1.11 | T.   |      |     |     | 1.45 | T.   | T.   |     |    |    | T.               | .07 | .30 |    |     |     |     |    |    |    |     | .09 |     | T.  |      | 3.67   |      |
| Yorkville         |               |     |   | .22 | .65  |      | 2.01 |      |     |     | 2.12 | .34  |      |     |    |    | T.               |     |     |    |     |     |     |    |    |    | .50 | .32 | T.  |     | .29  | 6.45   |      |

T. indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR FEBRUARY, 1908.

SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

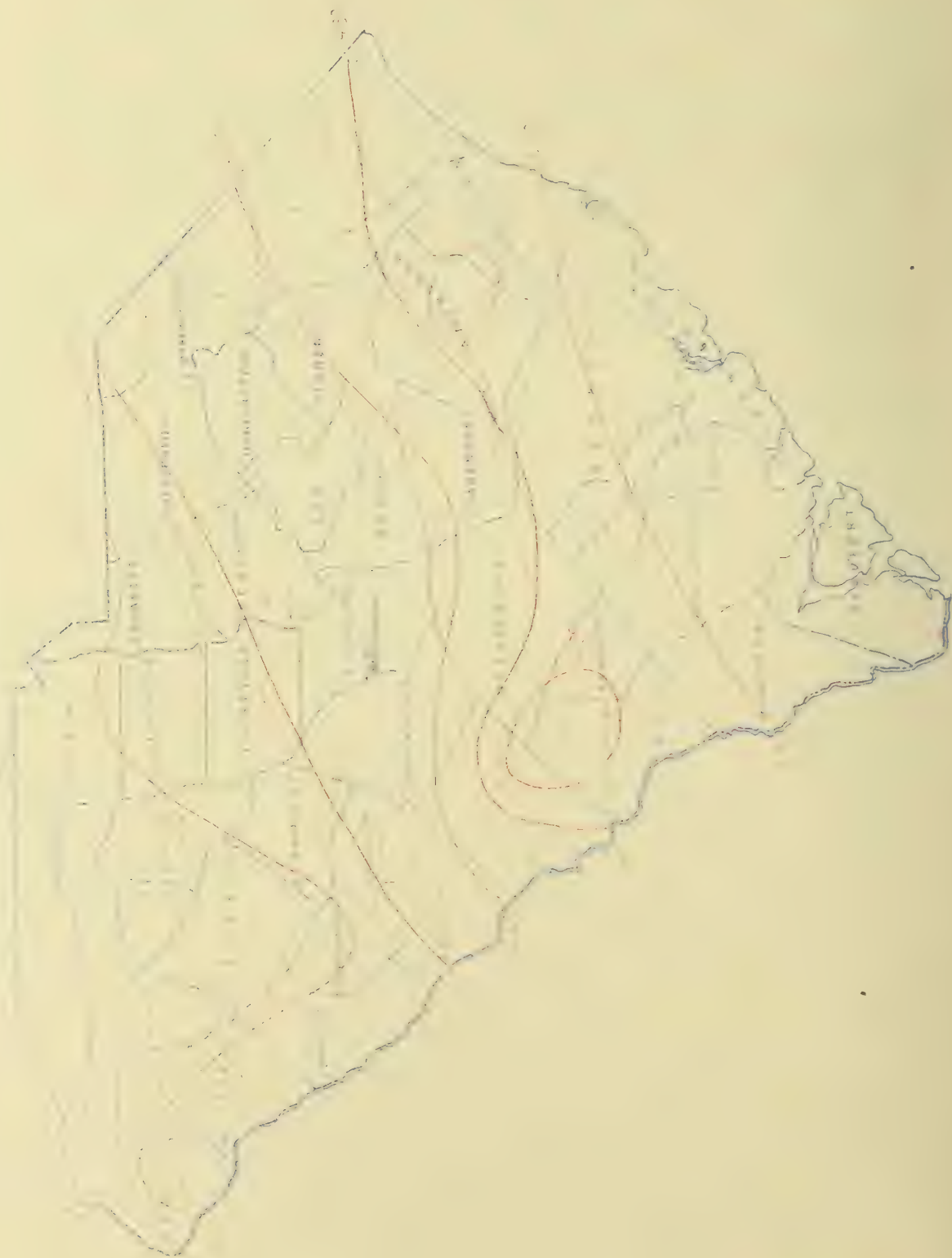
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

MARCH 25, 1908

Map of the State of New York, showing the location of the State of New York, and the location of the State of New York.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. XI. COLUMBIA, S. C., FEBRUARY, 1908. No. 2.

## GENERAL SUMMARY.

The average temperature was below the normal, and was lower than on any previous February since 1905. The rainfall was slightly above the normal, and the number of rainy days was about normal.

In a few places in the coast regions the temperature was slightly above the normal, but generally it was below the normal in all districts. The departures from the normal were greatest in the central and western portions. Maximum temperatures were not unusually high or minimum temperatures unusually low. Maximum temperatures from 70° to 80° were recorded in the eastern portion and from 62° to 69° in the western portion. Temperatures of 32°, or below, occurred frequently in the western and central counties and extended to the coast on three days. Temperatures of 20°, or below, were recorded only in the northern half of the State. The 13th, 14th and 29th were the warmest days. The lowest temperatures were generally recorded on the 3d.

The precipitation was above the normal in the eastern and extreme western portions and was normal, or slightly below, in the central portion. The precipitation in the western portion, on the 1st, was mixed snow, sleet and rain, the latter freezing as it fell, and on the night of the 9th and morning of the 10th mixed snow, sleet and rain were again recorded in the western counties; with these exceptions, the precipitation was all in the form of rain. A period of continuous precipitation began on the 9th and ended on the 15th. The rainfall was light during the latter half of the month.

## TEMPERATURE.

The mean temperature was 43.6°, which is 1.5° above the normal. The highest local mean was 48.8° at Beaufort, Blackville, Walterboro, and Yemassee, the lowest was 38.4° at Greenville. The monthly extremes of temperature were 81° at Blackville on the 29th and 12° at Camden on the 3d, making the State range 69°. The greatest local monthly range was 61° at Blackville, the least was 41° at Beaufort. The mean of the daily maximum temperatures was 53.5°, and of the daily minimum temperatures was 33.6°, making the average daily range 19.9°.

## PRECIPITATION.

The average precipitation was 5.28 inches, which is 0.66 of an inch above the normal. The greatest local monthly amount was 9.06 inches at Effingham, the least was 2.98 inches at Bennettsville. The greatest 24-hour rainfall was 2.60 inches at Greenwood on the 1st. The average number of days with rain was 10, ranging from 5 days at Aiken and Allendale to 12 days at Calhoun Falls, Cheraw and Columbia.

EXCESSIVE PRECIPITATION.—At Greenwood on the 1st, 2.60 inches in 24 hours; at Yemassee on the 1st, 2.51 inches in 24 hours.

## WIND.

The prevailing direction of the wind was west at 23 stations, northeast at 9 stations, northwest at 8 stations, east and southwest at 3 stations each, and north and southeast at 1 station each.

HIGH WINDS.—At Beaufort, Charleston, Winthrop College on the 15th; at Bowman on the 1st, 2d, 14th, 15th, 19th; at Camden on the 1st, 15th, 19th; at Cheraw on the 2d, 15th; at Clemson College, Heath Springs, Liberty on the 1st; at Columbia on the 1st, 15th; at Georgetown on the 15th, 16th, 18th, 19th, 22d; at Newberry on the 1st, 19th; at Saluda on the 1st, 15th, 16th; at Spartanburg on the 14th, 15th; at Stateburg on the 1st, 15th, 16th, 17th; at Summerville on the 1st, 2d, 14th, 19th, 20th, 26th, 27th; at Trial on the 1st, 2d, 14th, 15th; at Yorkville on the 14th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 14, of partly cloudy days was 6, and of cloudy days was 9.

## MISCELLANEOUS PHENOMENA.

PARHELION.—At Newberry on the 9th.

SOLAR HALOS.—At Camden, Liberty on the 8th.

LUNAR HALOS.—At Charleston on the 12th, 18th; at Winthrop College on the 21st.

SNOW.—At Dillon on the 27th; at Heath Springs, Liberty, Winthrop College, Yorkville on the 10th; at Newberry on the 9th; at Spartanburg on the 9th, 10th.

THUNDERSTORMS.—At Beaufort, Bowman, Kingstree, Summerville on the 1st; at Charleston on the 1st, 15th; at Georgetown, Liberty on the 15th.

SLEET.—At Aiken on the 2d, 10th; at Anderson on the 1st; at Barksdale, Batesburg, Beaufort, Heath Springs, Liberty, Saluda, Yorkville on the 10th; at Camden on the 5th; at Cheraw on the 5th, 10th; at Greenville on the 9th, 10th; at Santuc on the 10th, 11th; at Winthrop College on the 1st, 5th, 10th, 11th, 25th.

DENSE FOG.—At Barksdale on the 6th; at Beaufort on the 12th; at Blackville, Liberty, Newberry on the 13th; at Camden on the 13th, 14th; at Catawba, Clemson College on the 10th; at Columbia, Winthrop College on the 13th, 14th; at Conway, Dillon on the 5th; at Georgetown on the 8th; at Heath Springs on the 12th, 13th, 14th; at Society Hill on the 12th, 13th; at Yorkville on the 6th, 26th.



## BAROMETER AND WIND TABLE FOR FEBRUARY, 1908.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.16      | 30.59    | 9     | 29.53   | 15    | 6.325           | 9.1             | 36                | W.         | 15    |
| Charleston.       | 30.16      | 30.65    | 9     | 29.51   | 15    | 9.972           | 14.5            | 46                | SW.        | 15    |
| Charlotte, N. C.  | 30.15      | 30.74    | 9     | 29.37   | 15    | 5.724           | 8.2             | 40                | SW.        | 15    |
| Columbia.         | 30.15      | 30.75    | 9     | 29.46   | 15    | 6.455           | 9.3             | 40                | W.         | 16    |
| Savannah, Ga.     | 30.17      | 30.53    | 9     | 29.61   | 15    | 7.284           | 10.5            | 34                | W.         | 15    |
| Wilmington, N. C. | 30.16      | 30.76    | 9     | 29.47   | 15    | 7.311           | 10.5            | 42                | SW.        | 15    |
| Averages.         | 30.16      | 30.76    | 9     | 29.37   | 15    | 7.178           | 10.4            | 46                | SW.        | 15    |

## RIVER GAGE READINGS, FEBRUARY, 1908.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 5.0   | 15.6     | 16    | 1.0     | 5     |
| Calhoun Falls    | 5.2   | 9.1      | 16    | 4.0     | 6     |
| Camden           | 17.4  | 29.0     | 17    | 8.5     | 6     |
| Catawba          | 5.9   | 15.6     | 16    | 2.7     | 6     |
| Chappells        | 8.0   | 13.2     | 18    | 3.5     | 29    |
| Cheraw           | 14.8  | 31.3     | 17    | 4.7     | 1     |
| Columbia         | 6.8   | 14.6     | 17    | 2.3     | 9     |
| Effingham        | 10.0  | 15.0     | *19   | 6.0     | 1     |
| Ferguson         | 13.3  | 14.5     | *20   | 12.2    | 1     |
| Kingstree        | 8.5   | 10.0     | *18   | 7.5     | *1    |
| Mt. Holly, N. C. | 3.3   | 9.8      | 15    | 1.8     | 1     |
| Pelzer           | 4.2   | 5.3      | 15    | 3.3     | 5     |
| Rimini           | 14.9  | 19.4     | *19   | 11.7    | 1     |
| Smith Mills      | 14.1  | 18.1     | *25   | 11.2    | 4     |

\* On other dates also.

## REMARKS BY OBSERVERS.

CAMDEN.—The weather was cloudy continuously from the 9th to the 14th, inclusive, except a few minutes of sunshine on the latter day.—J. B. Mickle. CLARKS HILL.—The rain froze to trees on the 14th.—Wm. S. Middleton. DILLON.—The month was unusually cold and windy.—A. E. Rowell. LIBERTY.—The month was wet and cold. Fruit trees did not bud. Forest trees were damaged considerably by the weight of the ice on the 1st and 10th.—Jno. T. Boggs. SANTUC.—The first half of the month was very wet, but the rainfall was light during the latter half. The temperature was sufficiently low to prevent fruit trees from budding.—E. W. Jeter. SPARTANBURG.—Four and a half inches of snow fell during the night of the 9th and to 9 a. m. of the 10th when the precipitation changed to rain and sleet which continued thruout the 10th and 11th, doing much damage to telephone and telegraph wires.—F. P. Robinson. SUMMERVILLE.—The mean relative humidity for the month was 63 per centum.—Miss E. H. Gadsden. TRENTON.—The total precipitation since January 1st is 0.23 of an inch less than the normal for the same period.—C. A. Long.

CLIMATOLOGY OF TRIAL, S. C.  
Temperature.

| Year  | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|
| 1888. | 45   | 44   | 50   | 60    | 68   | 73   | 78   | 76   | 70    | 58   | 52   | 41   | 60.2 |
| 1889. | 45   | 51   | 52   | 61    | 71   | 82   | 82   | 79   | 71    | 60   | 54   | 50   | 64.4 |
| 1890. | 44   | 53   | 51   | 61    | 67   | 78   | 78   | 75   | 76    | 66   | 54   | 52   | 60.0 |
| 1891. | 46   | 52   | 62   | 70    | 77   | 75   | 76   | 73   | 65    | 54   | 44   | 44   | 65.2 |
| 1892. | 41   | 54   | 56   | 69    | 70   | 76   | 82   | 79   | 77    | 68   | 57   | 54   | 65.2 |
| 1893. | 54   | 53   | 62   | 64    | 72   | 77   | 78   | 79   | 76    | 66   | 58   | 53   | 66.0 |
| 1894. | 50   | 40   | 56   | 62    | 69   | 78   | 80   | 77   | 63    | 57   | 49   | 43   | 63.3 |
| 1895. | 46   | 45   | 54   | 66    | 76   | 77   | 81   | 80   | 75    | 64   | 62   | 47   | 64.3 |
| 1896. | 45   | 53   | 58   | 63    | 69   | 78   | 79   | 78   | 72    | 66   | 61   | 52   | 64.5 |
| 1897. | 51   | 46   | 59   | 56    | 71   | 76   | 78   | 77   | 75    | 63   | 53   | 47   | 62.7 |
| 1898. | 46   | 44   | 56   | 58    | 72   | 76   | 77   | 78   | 70    | 62   | 56   | 46   | 61.7 |
| 1900. | 43   | 45   | 50   | 61    | 68   | 74   | 79   | 80   | 74    | 65   | 56   | 45   | 61.7 |
| 1901. | 47   | 42   | 52   | 54    | 70   | 74   | 79   | 77   | 72    | 61   | 46   | 46   | 60.1 |
| 1902. | 44   | 42   | 52   | 60    | 73   | 77   | 82   | 78   | 72    | 64   | 61   | 51   | 63.2 |
| 1903. | 46   | 52   | 62   | 59    | 69   | 73   | 79   | 79   | 71    | 62   | 52   | 41   | 62.0 |
| 1904. | 41   | 46   | 59   | 60    | 70   | 77   | 80   | 78   | 74    | 63   | 53   | 46   | 62.1 |
| 1905. | 42   | 42   | 60   | 64    | 74   | 78   | 81   | 77   | 76    | 64   | 56   | 47   | 63.4 |
| 1906. | 50   | 48   | 55   | 65    | 70   | 79   | 78   | 81   | 78    | 64   | 55   | 49   | 64.2 |
| 1907. | 56   | 47   | 64   | 57    | 71   | 78   | 81   | 78   | 77    | 62   | 54   | 49   | 64.5 |
| M'n's | 47.0 | 47.7 | 56.0 | 61.1  | 70.6 | 76.7 | 79.0 | 77.8 | 73.8  | 63.0 | 55.3 | 48.0 | 63.0 |

## Precipitation.

| Year  | Jan. | Feb. | Mar. | April | May   | June  | July  | Aug.  | Sept. | Oct. | Nov. | Dec. | Year  |
|-------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1886. | 3.58 | 2.70 | 3.27 | 2.08  | 4.83  | 9.04  | 12.00 | 7.33  | 0.80  | 1.38 | 1.61 | 2.80 | 51.42 |
| 1887. | 4.81 | 3.53 | 1.00 | 2.33  | 4.18  | 3.77  | 7.00  | 7.49  | 2.61  | 6.45 | 3.25 | 4.57 | 51.20 |
| 1888. | 2.56 | 5.51 | 5.53 | 2.55  | 11.23 | 3.28  | 4.68  | 3.70  | 8.02  | 4.75 | 3.11 | 3.08 | 58.20 |
| 1889. | 7.21 | 5.33 | 5.33 | 3.37  | 1.60  | 5.23  | 5.54  | 8.73  | 3.28  | 0.37 | 4.90 | 0.25 | 51.16 |
| 1890. | 1.18 | 1.51 | 2.53 | 1.76  | 8.05  | 3.19  | 6.16  | 5.83  | 7.71  | 5.25 | 0.57 | 1.31 | 45.05 |
| 1891. | 2.32 | 2.45 | 5.39 | 1.84  | 5.66  | 2.04  | 6.84  | 10.83 | 3.47  | 2.40 | 2.49 | 2.64 | 48.34 |
| 1892. | 5.93 | 2.05 | 4.53 | 1.72  | 8.67  | 6.87  | 7.32  | 3.57  | 5.24  | 0.75 | 5.24 | 1.27 | 50.82 |
| 1893. | 3.75 | 4.03 | 3.71 | 0.89  | 3.30  | 10.67 | 7.75  | 3.11  | 5.49  | 1.27 | 2.92 | 1.75 | 46.61 |
| 1894. | 2.02 | 5.17 | 2.63 | 0.72  | 2.01  | 2.42  | 8.53  | 8.11  | 0.66  | 3.54 | 2.15 | 1.75 | 46.61 |
| 1895. | 0.16 | 4.27 | 5.86 | 3.90  | 4.35  | 2.06  | 4.71  | 10.85 | 1.85  | 0.46 | 1.67 | 1.40 | 50.54 |
| 1896. | 2.96 | 6.26 | 3.02 | 1.00  | 2.74  | 5.87  | 5.36  | 5.66  | 1.73  | 0.81 | 2.23 | 5.54 | 43.68 |
| 1897. | 2.61 | 8.68 | 5.04 | 2.97  | 1.67  | 7.96  | 7.29  | 9.18  | 4.45  | 2.15 | 2.47 | 3.20 | 57.96 |
| 1898. | 0.93 | 0.62 | 3.13 | 5.42  | 6.31  | 7.16  | 9.60  | 15.20 | 2.99  | 4.90 | 6.09 | 4.97 | 67.32 |
| 1899. | 4.65 | 5.48 | 2.01 | 4.30  | 2.52  | 5.54  | 5.14  | 9.98  | 2.54  | 5.10 | 2.03 | 2.08 | 51.67 |
| 1900. | 2.23 | 4.09 | 1.64 | 3.23  | 1.77  | 10.05 | 5.75  | 3.65  | 6.15  | 4.56 | 1.76 | 7.55 | 52.43 |
| 1901. | 2.94 | 3.96 | 3.26 | 3.07  | 6.70  | 9.78  | 1.13  | 3.89  | 2.57  | 0.46 | 1.32 | 2.34 | 41.51 |
| 1902. | 1.35 | 4.88 | 3.70 | 2.30  | 5.66  | 4.52  | 1.89  | 5.30  | 3.57  | 4.31 | 3.85 | 3.55 | 44.88 |
| 1903. | 5.92 | 5.57 | 4.40 | 2.23  | 2.04  | 5.47  | 4.89  | 10.99 | 3.17  | 2.97 | 1.02 | 3.08 | 51.21 |
| 1904. | 3.87 | 3.80 | 3.84 | 0.60  | 1.56  | 5.13  | 9.03  | 6.53  | 1.75  | 1.31 | 2.42 | 1.58 | 40.22 |
| 1905. | 2.42 | 5.15 | 2.42 | 3.89  | 5.71  | 3.06  | 3.54  | 6.07  | 1.67  | 1.44 | 1.06 | 4.60 | 38.62 |
| 1906. | 4.71 | 3.79 | 3.80 | 1.21  | 1.72  | 7.96  | 8.96  | 5.21  | 5.41  | 4.22 | 1.24 | 3.03 | 51.28 |
| 1907. | 0.82 | 3.14 | 0.98 | 5.05  | 7.06  | 5.33  | 6.98  | 8.93  | 6.98  | 0.60 | 2.13 | 5.17 | 53.17 |
| M'n's | 3.54 | 4.28 | 3.43 | 2.58  | 4.57  | 5.74  | 6.36  | 7.37  | 3.91  | 2.91 | 2.35 | 3.12 | 50.16 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 56                    | 1907  | 41                   | *1904 | 9.16              | 1895  | 0.82           | 1907  |
| February  | 54                    | *1893 | 40                   | 1895  | 8.68              | 1897  | 0.62           | 1896  |
| March     | 61                    | 1907  | 50                   | *1900 | 5.86              | 1895  | 0.98           | 1907  |
| April     | 69                    | 1893  | 56                   | 1898  | 5.42              | 1898  | 0.72           | 1899  |
| May       | 76                    | 1896  | 67                   | 1891  | 11.23             | 1888  | 1.56           | 1901  |
| June      | 82                    | 1890  | 73                   | 1903  | 10.07             | 1893  | 2.01           | 1896  |
| July      | 82                    | *1902 | 75                   | 1902  | 12.00             | 1896  | 1.13           | 1901  |
| August    | 81                    | 1906  | 73                   | 1889  | 15.20             | 1898  | 3.57           | 1896  |
| September | 78                    | 1906  | 69                   | 1889  | 8.02              | 1888  | 0.80           | 1889  |
| October   | 68                    | 1893  | 58                   | *1889 | 6.45              | 1887  | 0.37           | 1889  |
| November  | 62                    | 1896  | 46                   | 1901  | 6.09              | 1898  | 0.57           | 1896  |
| December  | 53                    | 1894  | 41                   | 1903  | 7.55              | 1900  | 0.25           | 1889  |

\* And other years.

## COMPARATIVE FEBRUARY DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |                  |                | Number<br>Rainy<br>Days. | Prevailin<br>Wind<br>Direction |        |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|------------------|----------------|--------------------------|--------------------------------|--------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                  | Least Monthly. |                          |                                |        |
|           |              |                  |                  |          |          |                | Amount.           | Place.           | Amount.        |                          |                                | Place. |
| 1894..... | 48.9         | 57.7             | 40.1             | 76       | 16       | 4.35           | 6.61              | Trenton.         | 2.88           | Cheraw.                  | 10                             | SW.    |
| 1895..... | 37.4         | 45.5             | 29.2             | 78       | —6       | 3.07           | 4.47              | Charleston.      | 1.20           | Shaw's Fork.             | 7                              | NW.    |
| 1896..... | 48.2         | 59.8             | 37.7             | 81       | 5        | 6.13           | 8.70              | Pinopolis.       | 3.55           | Port Royal.              | 8                              | SW.    |
| 1897..... | 50.0         | 59.3             | 40.7             | 83       | 15       | 7.80           | 10.50             | Georgetown.      | 6.68           | Spartanburg.             | 11                             | SW.    |
| 1898..... | 44.5         | 56.6             | 32.4             | 78       | 10       | 0.86           | 2.00              | Georgetown.      | 0.34           | St. George.              | 3                              | W.     |
| 1899..... | 43.0         | 52.5             | 33.4             | 80       | —11      | 6.98           | 12.30             | Trenton.         | 3.23           | Allendale.               | 12                             | W.     |
| 1900..... | 44.0         | 53.9             | 31.0             | 78       | 1        | 5.77           | 10.61             | Holland.         | 1.86           | Yemassee.                | 10                             | W.     |
| 1901..... | 43.2         | 53.7             | 32.8             | 78       | 7        | 3.68           | 5.40              | Georgetown.      | 1.28           | Winnsboro.               | 6                              | NW.    |
| 1902..... | 40.6         | 50.1             | 31.1             | 77       | 11       | 5.89           | 10.51             | Barksdale.       | 2.38           | Yemassee.                | 8                              | NW.    |
| 1903..... | 49.0         | 59.5             | 38.5             | 81       | 11       | 7.03           | 12.48             | Clemson College. | 2.07           | Charleston.              | 10                             | SW.    |
| 1904..... | 45.2         | 54.7             | 35.6             | 86       | 15       | 3.59           | 5.35              | Walterboro.      | 1.95           | Allendale.               | 9                              | NE.    |
| 1905..... | 38.9         | 48.0             | 29.8             | 72       | 0        | 5.21           | 8.20              | Blackville.      | 2.87           | Barksdale.               | 9                              | NE.    |
| 1906..... | 46.0         | 57.2             | 34.8             | 76       | 12       | 2.58           | 7.26              | Georgetown.      | 0.66           | Greenville.              | 6                              | NE.    |
| 1907..... | 45.1         | 54.9             | 35.3             | 84       | 16       | 3.63           | 5.69              | Society Hill.    | 1.61           | Charleston.              | 8                              | NE.    |
| 1908..... | 43.6         | 53.5             | 33.6             | 81       | 12       | 5.28           | 9.06              | Effingham.       | 2.98           | Bennettsville.           | 10                             | W.     |



CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY 1908.

| STATIONS                   | COUNTIES     | Elevation<br>Feet | Longitude<br>West | Temperature—degrees Fahrenheit |                             |         |      |        |      |                       | Precipitation—Inches |                                      |                                     |                              |                     |                        |                       | Sky.                             |                             |                         |                      |                      |                     |              | Observations          |  |
|----------------------------|--------------|-------------------|-------------------|--------------------------------|-----------------------------|---------|------|--------|------|-----------------------|----------------------|--------------------------------------|-------------------------------------|------------------------------|---------------------|------------------------|-----------------------|----------------------------------|-----------------------------|-------------------------|----------------------|----------------------|---------------------|--------------|-----------------------|--|
|                            |              |                   |                   | Mean                           | Departure<br>from<br>Normal | Highest | Date | Lowest | Date | Condensation<br>point | Total                | Days<br>with<br>falling<br>barometer | Days<br>with<br>rising<br>barometer | Days<br>with<br>no<br>change | Days<br>with<br>fog | Days<br>with<br>clouds | Days<br>with<br>clear | Days<br>with<br>partly<br>cloudy | Days<br>with<br>b. or<br>s. | Days<br>with<br>drizzle | Days<br>with<br>snow | Days<br>with<br>hail | Days<br>with<br>ice |              |                       |  |
| Aiken                      | Aiken        | 505               | 74                | 48.0                           | 0                           | 73      | 11   | 22     | 3    | 28                    | 4.70                 | +0.55                                | 1.80                                | 0                            | 5                   | 14                     | 5                     | 11                               | W.                          |                         |                      |                      |                     |              | C. F. McGahan, M. D.  |  |
| Allendale                  | Barnwell     | 186               | 20                | 46.6                           | -1.0                        | 72      | 23   | 22     | 3    | 40                    | 4.87                 | -0.88                                | 1.06                                | 0                            | 5                   | 14                     | 0                     | 12                               | W.                          |                         |                      |                      |                     |              | A. R. Hoots           |  |
| Anderson                   | Anderson     | 704               | 7                 | 49.0                           | 3.1                         | 67      | 29   | 10     | 3    | 33                    | 4.86                 | -0.88                                | 1.06                                | 0                            | 10                  | 13                     | 4                     | 12                               | W.                          |                         |                      |                      |                     |              | H. H. Russell         |  |
| Augusta, Ga.               | Richmond     | 131               | 37                | 44.0                           | 4.4                         | 71      | 14   | 21     | 3    | 35                    | 3.75                 | -0.63                                | 2.36                                | 0                            | 13                  | 14                     | 6                     | 9                                | W.                          |                         |                      |                      |                     |              | Weather Bureau        |  |
| Barksdale                  | Laurens      | 680               | 7                 | 49.8                           | 0.4                         | 64      | 13   | 15     | 3    | 31                    | 3.13                 | -1.31                                | 2.03                                | 0                            | 8                   | 12                     | 4                     | 7                                | ne.                         |                         |                      |                      |                     |              | J. T. Garrett         |  |
| Batesburg                  | Lexington    | 656               | 20                | 40.7                           | 1.6                         | 68      | *14  | 17     | 3    | 40                    | 4.89                 | -1.31                                | 2.03                                | 0                            | 10                  | 16                     | 4                     | 9                                | e.                          |                         |                      |                      |                     |              | E. J. Hite            |  |
| Beaufort                   | Beaufort     | 20                | 22                | 48.8                           | 2.9                         | 67      | *13  | 26     | 3    | 31                    | 5.17                 | -1.20                                | 1.46                                | 0                            | 9                   | 15                     | 5                     | 9                                | ne.                         |                         |                      |                      |                     |              | S. M. Benton          |  |
| Bennettsville              | Marlboro     | 151               | 7                 | 43.6                           | 0.6                         | 66      | *13  | 19     | 3    | 30                    | 2.98                 | 0.91                                 | 0                                   | 0                            | 16                  | 5                      | 8                     | W.                               |                             |                         |                      |                      |                     | C. S. McCall |                       |  |
| Blackville                 | Barnwell     | 206               | 20                | 48.8                           | +3.2                        | 81      | 29   | 20     | 2    | 53                    | 4.16                 | -0.85                                | 2.07                                | 0                            | 9                   | 14                     | 6                     | 9                                | ne.                         |                         |                      |                      |                     |              | Miss M. E. Lange      |  |
| Blair                      | Fairfield    | 203               | 3                 | 48.8                           | 0.6                         | 74      | 14   | 19     | 3    | 38                    | 5.68                 | -0.85                                | 1.74                                | 0                            | 10                  | 11                     | 5                     | 10                               | ne.                         |                         |                      |                      |                     |              | T. S. McMeekin        |  |
| Bowman                     | Orangeburg   | 160               | 1                 | 46.2                           | 0.6                         | 70      | *14  | 19     | 3    | 38                    | 6.54                 | -0.85                                | 1.68                                | 0                            | 8                   | 19                     | 4                     | 6                                | W.                          |                         |                      |                      |                     |              | B. O. Evans           |  |
| Calhoun Falls              | Abbeville    | 508               | 15                | 42.6                           | 0.6                         | 70      | 29   | 12     | 3    | 35                    | 6.29                 | -1.45                                | 0.97                                | 0                            | 12                  | 16                     | 0                     | 13                               | ne.                         |                         |                      |                      |                     |              | P. J. Proffert        |  |
| Camden (1)                 | Kershaw      | 222               | 42                | 42.6                           | 0.6                         | 70      | 29   | 12     | 3    | 35                    | 4.78                 | -0.67                                | 0.67                                | 0                            | 10                  | 17                     | 3                     | 9                                | ne.                         |                         |                      |                      |                     |              | J. B. Mickle          |  |
| Camden (2)                 | Kershaw      | 222               | 42                | 42.6                           | 0.6                         | 70      | 29   | 12     | 3    | 35                    | 4.78                 | -0.67                                | 0.67                                | 0                            | 10                  | 16                     | 4                     | 9                                | e.                          |                         |                      |                      |                     |              | W. C. Brown           |  |
| Catawba                    | York         | 462               | 3                 | 42.6                           | 0.6                         | 70      | 29   | 12     | 3    | 35                    | 5.84                 | -1.37                                | 1.76                                | 0                            | 10                  | 16                     | 4                     | 11                               | ne.                         |                         |                      |                      |                     |              | Jas. C. Farris        |  |
| Chapin                     | Newberry     | 462               | 3                 | 42.6                           | 0.6                         | 70      | 29   | 12     | 3    | 35                    | 5.84                 | -1.37                                | 1.76                                | 0                            | 10                  | 16                     | 4                     | 11                               | ne.                         |                         |                      |                      |                     |              | W. R. Zimmerman       |  |
| Charleston                 | Charleston   | 18                | 39                | 48.5                           | 3.2                         | 68      | 13   | 20     | 3    | 28                    | 3.15                 | -0.26                                | 1.02                                | 0                            | 8                   | 14                     | 8                     | 7                                | ne.                         |                         |                      |                      |                     |              | Weather Bureau        |  |
| Charlotte, N. C.           | Mecklenburg  | 868               | 30                | 38.1                           | 5.7                         | 63      | 14   | 17     | 3    | 27                    | 3.78                 | -0.64                                | 0.96                                | 0                            | 13                  | 8                      | 9                     | 12                               | ne.                         |                         |                      |                      |                     |              | Weather Bureau        |  |
| Cheraw (1)                 | Chesterfield | 144               | 20                | 41.8                           | -2.8                        | 66      | 14   | 17     | 3    | 35                    | 4.79                 | -1.21                                | 1.31                                | 0                            | 9                   | 12                     | 5                     | 12                               | W.                          |                         |                      |                      |                     |              | W. R. Godfrey         |  |
| Cheraw (2)                 | Chesterfield | 144               | 15                | 41.8                           | -2.8                        | 66      | 14   | 17     | 3    | 35                    | 4.79                 | -1.21                                | 1.31                                | 0                            | 9                   | 12                     | 5                     | 12                               | W.                          |                         |                      |                      |                     |              | J. H. Powe            |  |
| Clarks Hill                | Edgefield    | 500               | 6                 | 42.0                           | 0.6                         | 72      | 14   | 15     | 3    | 35                    | 4.93                 | -0.64                                | 1.34                                | 0                            | 12                  | 11                     | 9                     | 9                                | W.                          |                         |                      |                      |                     |              | Wm. S. Middleton      |  |
| Clemson College            | Oconee       | 850               | 17                | 40.4                           | -0.9                        | 67      | 29   | 14     | 3    | 30                    | 5.43                 | -0.32                                | 2.05                                | 0                            | 8                   | 17                     | 4                     | 8                                | W.                          |                         |                      |                      |                     |              | Jno. N. Hook          |  |
| Columbia                   | Richland     | 351               | 21                | 43.4                           | -4.4                        | 60      | 29   | 20     | 3    | 32                    | 3.80                 | -0.79                                | 1.58                                | 0                            | 12                  | 10                     | 8                     | 11                               | W.                          |                         |                      |                      |                     |              | Central Office        |  |
| Conway                     | Horry        | 25                | 16                | 45.7                           | 0.6                         | 68      | *14  | 20     | 3    | 29                    | 7.33                 | +2.73                                | 1.76                                | 0                            | 11                  | 15                     | 0                     | 14                               | W.                          |                         |                      |                      |                     |              | P. C. Gastlebaum      |  |
| Darlington                 | Darlington   | 175               | 13                | 44.4                           | 0.6                         | 75      | 29   | 19     | 3    | 37                    | 2.71                 | -2.32                                | 1.00                                | 0                            | 9                   | 11                     | 0                     | 14                               | W.                          |                         |                      |                      |                     |              | D. C. McCall          |  |
| Dillon                     | Marion       | 100               | 4                 | 44.2                           | 0.6                         | 67      | 14   | 17     | 2    | 34                    | 5.35                 | -0.85                                | 1.00                                | 0                            | 11                  | 11                     | 0                     | 14                               | W.                          |                         |                      |                      |                     |              | A. E. Rowell          |  |
| Durham                     | Abbeville    | 730               | 1                 | 44.2                           | 0.6                         | 67      | 14   | 17     | 2    | 34                    | 5.35                 | -0.85                                | 1.00                                | 0                            | 11                  | 11                     | 0                     | 14                               | W.                          |                         |                      |                      |                     |              | Rev. O. V. Bonner     |  |
| Edgingham                  | Florence     | 109               | 1                 | 44.2                           | 0.6                         | 67      | 14   | 17     | 2    | 34                    | 5.35                 | -0.85                                | 1.00                                | 0                            | 11                  | 11                     | 0                     | 14                               | W.                          |                         |                      |                      |                     |              | H. B. McCall          |  |
| Felton                     | Florence     | 109               | 1                 | 44.2                           | 0.6                         | 67      | 14   | 17     | 2    | 34                    | 5.35                 | -0.85                                | 1.00                                | 0                            | 11                  | 11                     | 0                     | 14                               | W.                          |                         |                      |                      |                     |              | John T. Bowers        |  |
| Florence                   | Florence     | 136               | 20                | 44.0                           | -1.1                        | 70      | 29   | 14     | 4    | 42                    | 6.52                 | -1.52                                | 1.52                                | 0                            | 11                  | 14                     | 2                     | 13                               | W.                          |                         |                      |                      |                     |              | H. K. Gilbert         |  |
| Georgetown                 | Georgetown   | 12                | 15                | 47.4                           | 0.3                         | 60      | *6   | 24     | 2    | 33                    | 4.56                 | -0.11                                | 1.80                                | 0                            | 7                   | 16                     | 3                     | 10                               | W.                          |                         |                      |                      |                     |              | Wm. Alden James       |  |
| Greenville                 | Greenville   | 980               | 10                | 38.4                           | -0.8                        | 70      | 29   | 15     | 3    | 51                    | 6.65                 | -1.39                                | 1.80                                | 0                            | 10                  | 17                     | 0                     | 12                               | W.                          |                         |                      |                      |                     |              | Mrs. S. A. Crittenden |  |
| Greenville                 | Greenville   | 980               | 10                | 38.4                           | -0.8                        | 70      | 29   | 15     | 3    | 51                    | 6.65                 | -1.39                                | 1.80                                | 0                            | 10                  | 17                     | 0                     | 12                               | W.                          |                         |                      |                      |                     |              | M. M. Calhoun         |  |
| Heath Spring               | Lancaster    | 568               | 7                 | 41.2                           | 0.6                         | 66      | 14   | 21     | 2    | 26                    | 4.26                 | -0.26                                | 1.80                                | 0                            | 8                   | 13                     | 6                     | 10                               | W.                          |                         |                      |                      |                     |              | J. A. Weaver          |  |
| Kingstree (1)              | Williamsburg | 54                | 20                | 49.0                           | +2.9                        | 70      | 14   | 23     | 3    | 28                    | 6.66                 | +2.32                                | 1.90                                | 0                            | 11                  | 18                     | 1                     | 10                               | W.                          |                         |                      |                      |                     |              | J. A. Scott           |  |
| Kingstree (2)              | Williamsburg | 54                | 14                | 49.0                           | +2.9                        | 70      | 14   | 23     | 3    | 28                    | 6.66                 | +2.32                                | 1.90                                | 0                            | 11                  | 18                     | 1                     | 10                               | W.                          |                         |                      |                      |                     |              | A. O. Matthews        |  |
| Liberty                    | Pickens      | 900               | 14                | 30.4                           | -1.7                        | 61      | 15   | 13     | 3    | 32                    | 5.12                 | -0.46                                | 1.52                                | 0                            | 10                  | 12                     | 7                     | 10                               | ne.                         |                         |                      |                      |                     |              | Jno. T. Boggs         |  |
| Little Mountain            | Newberry     | 630               | 15                | 42.8                           | 1.5                         | 70      | 29   | 18     | 3    | 32                    | 5.26                 | -0.11                                | 1.66                                | 0                            | 10                  | 14                     | 7                     | 8                                | W.                          |                         |                      |                      |                     |              | John M. Sease, M. D.  |  |
| Newberry                   | Newberry     | 502               | 4                 | 40.9                           | -2.1                        | 69      | 14   | 19     | 3    | 34                    | 3.86                 | -1.79                                | 1.10                                | 0                            | 10                  | 12                     | 7                     | 10                               | W.                          |                         |                      |                      |                     |              | W. G. Peterson        |  |
| Pelzer                     | Anderson     | 873               | 3                 | 40.9                           | -2.1                        | 69      | 14   | 19     | 3    | 34                    | 3.86                 | -1.79                                | 1.10                                | 0                            | 10                  | 12                     | 7                     | 10                               | W.                          |                         |                      |                      |                     |              | John M. Ward          |  |
| Pinopolis                  | Berkeley     | 51                | 15                | 40.9                           | -2.1                        | 69      | 14   | 19     | 3    | 34                    | 3.86                 | -1.79                                | 1.10                                | 0                            | 10                  | 12                     | 7                     | 10                               | W.                          |                         |                      |                      |                     |              | E. P. Ravenel         |  |
| St. George                 | Dorchester   | 106               | 26                | 47.8                           | 2.1                         | 70      | 14   | 23     | 3    | 35                    | 5.30                 | +1.03                                | 2.00                                | 0                            | 6                   | 21                     | 0                     | 8                                | W.                          |                         |                      |                      |                     |              | G. T. Lewis           |  |
| St. Matthews               | Orangeburg   | 269               | 20                | 43.4                           | -1.9                        | 72      | 13   | 21     | 4    | 42                    | 7.02                 | +1.89                                | 2.10                                | 0                            | 11                  | 19                     | 0                     | 10                               | W.                          |                         |                      |                      |                     |              | J. S. Wainmaker       |  |
| Saluda                     | Saluda       | 536               | 6                 | 42.2                           | 0.6                         | 70      | 14   | 17     | 3    | 33                    | 4.93                 | -0.11                                | 1.65                                | 0                            | 10                  | 18                     | 1                     | 10                               | W.                          |                         |                      |                      |                     |              | Alvin Etheridge       |  |
| Santee                     | Union        | 512               | 14                | 40.0                           | 1.7                         | 68      | 29   | 16     | 3    | 30                    | 5.82                 | +0.66                                | 1.88                                | 0                            | 9                   | 10                     | 10                    | 9                                | W.                          |                         |                      |                      |                     |              | E. W. Jeter           |  |
| Savannah, Ga.              | Chatham      | 71                | 39                | 49.3                           | -3.2                        | 71      | 13   | 25     | 3    | 28                    | 4.62                 | -1.34                                | 1.78                                | 0                            | 10                  | 14                     | 5                     | 10                               | W.                          |                         |                      |                      |                     |              | Weather Bureau        |  |
| Smith Mills                | Williamsburg | 62                | 13                | 49.3                           | -3.2                        | 71      | 13   | 25     | 3    | 28                    | 4.62                 | -1.34                                | 1.78                                | 0                            | 10                  | 14                     | 5                     | 10                               | W.                          |                         |                      |                      |                     |              | W. G. Walker          |  |
| Society Hill               | Darlington   | 192               | 17                | 42.9                           | -1.0                        | 67      | 29   | 18     | 2    | 30                    | 3.60                 | -1.40                                | 1.63                                | 0                            | 7                   | 17                     | 3                     | 9                                | ne.                         |                         |                      |                      |                     |              | J. J. Lucas           |  |
| Spartanburg                | Spartanburg  | 875               | 17                | 38.6                           | -3.8                        | 70      | 29   | 14     | 3    | 46                    | 5.82                 | +0.42                                | 1.80                                | 0                            | 4                   | 15                     | 0                     | 14                               | W.                          |                         |                      |                      |                     |              | F. P. Robinson        |  |
| Stateburg                  | Sumter       | 500               | 31                | 45.4                           | -3.0                        | 71      | 29   | 21     | 3    | 42                    | 4.09                 | -0.01                                | 1.28                                | 0                            | 8                   | 9                      | 12                    | 8                                | W.                          |                         |                      |                      |                     |              | W. W. Anderson, M. D. |  |
| Summerville                | Dorchester   | 75                | 11                | 48.2                           | +0.8                        | 71      | *13  | 18     | 3    | 40                    | 6.67                 | -1.27                                | 2.13                                | 0                            | 11                  | 11                     | 10                    | 8                                | W.                          |                         |                      |                      |                     |              | Miss E. H. Gadsden    |  |
| Trenton                    | Edgefield    | 620               | 15                | 43.1                           | -2.8                        | 70      | 14   | 18     | 3    | 28                    | 1.77                 | -1.39                                | 1.40                                | 0                            | 10                  | 16                     | 6                     | 7                                | W.                          |                         |                      |                      |                     |              | C. A. Long            |  |
| Trial                      | Berkeley     | 85                | 22                | 46.0                           | 1.2                         | 70      | *14  | 18     | 3    | 38                    | 4.61                 | -0.22                                | 1.45                                | 0                            | 9                   | 13                     | 8                     | 8                                | W.                          |                         |                      |                      |                     |              | Etsell Gaillard       |  |
| Waltham                    | Oconee       | 1061              | 17                | 41.4                           | 1.7                         | 70      | 29   | 14     | 3    | 40                    | 8.16                 | +3.04                                | 2.20                                | 0                            | 10                  | 9                      | 11                    | 9                                | W.                          |                         |                      |                      |                     |              | Miss Jessie Douthitt  |  |
| Walterboro                 | Colleton     | 69                | 5                 | 48.8                           | 0.6                         | 70      | 14   | 20     | 3    | 33                    | 6.79                 | -0.46                                | 2.47                                | 0                            | 11                  | 18                     | 4                     | 7                                | W.                          |                         |                      |                      |                     |              | J. A. Westerberg      |  |
| Wilmington, N. C.          | New Hanover  | 52                | 39                | 45.6                           | 2.1                         | 67      | 15   | 21     | 3    | 28                    | 5.68                 | +2.29                                | 1.49                                | 0                            | 10                  | 12                     | 9                     | 8                                | W.                          |                         |                      |                      |                     |              | Weather Bureau        |  |
| Winnabow                   | Fairfield    | 545               | 19                | 45.6                           | 2.1                         | 67      | 15   | 21     | 3    | 28                    | 5.68                 | +2.29                                | 1.49                                | 0                            | 10                  | 12                     | 9                     | 8                                | W.                          |                         |                      |                      |                     |              | John W. Seigler       |  |
| Winthrop College           | York         | 600               | 9                 | 40.2                           | 0.6                         | 66      | 29   | 16     | 3    | 30                    | 5.54                 | -0.16                                | 2.00                                | 0                            | 8                   | 18                     | 3                     | 8                                | W.                          |                         |                      |                      |                     |              | E. R. Rivers          |  |
| Yemassee                   | Beaufort     | 23                | 13                | 48.8                           | +0.8                        | 70      | 11   | 20     | 3    | 36                    | 6.66                 | +2.62                                | 2.51                                | 0                            | 10                  | 18                     | 3                     | 8                                | W.                          |                         |                      |                      |                     |              | J. G. Hutson          |  |
| Yorkville                  | York         | 680               | 20                | 40.6                           | -4.4                        | 68      | 29   | 15     | 3    | 31                    | 5.87                 | +1.03                                | 1.28                                | 0                            | 10                  | 9                      | 11                    | 9                                | ne.                         |                         |                      |                      |                     |              | J. R. Schorb          |  |
| Means, extremes, and dates |              |                   |                   | 43.6                           | 1.5                         | 81      | 29   | 12     | 3    | 51                    | 5.28                 | +0.66                                | 2.60                                | 0.4                          | 10                  | 14                     | 6                     | 9                                | W.                          |                         |                      |                      |                     |              |                       |  |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. \* Maximum thermometer not standard. † Minimum thermometer not standard. § Exposed not standard. \* On other dates also. † indicates 1 day missing, b, 2 days, etc. ‡ The state of sky at 8 a.m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING FEBRUARY, 1908.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.

<sup>†</sup>The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



6  
TOTAL PRECIPITATION FOR FEBRUARY 1896



## DAILY PRECIPITATION FOR SOUTH CAROLINA, FEBRUARY, 1908.

| STATIONS.         | Day of Month. |     |     |    |     |      |     |     |      |      |      |     |      |      |      |     |    |      |     |     |     |    |    |    |     |     |     |    |    |    |    | Total. |
|-------------------|---------------|-----|-----|----|-----|------|-----|-----|------|------|------|-----|------|------|------|-----|----|------|-----|-----|-----|----|----|----|-----|-----|-----|----|----|----|----|--------|
|                   | 1             | 2   | 3   | 4  | 5   | 6    | 7   | 8   | 9    | 10   | 11   | 12  | 13   | 14   | 15   | 16  | 17 | 18   | 19  | 20  | 21  | 22 | 23 | 24 | 25  | 26  | 27  | 28 | 29 | 30 | 31 |        |
| Aiken             | 1.80          |     |     |    |     |      |     |     |      | 1.05 | .75  | .10 |      |      | 1.00 |     |    |      |     |     |     |    |    |    |     |     |     |    |    |    |    | 4.70   |
| Allendale         |               |     |     |    |     |      |     |     |      | .50  | 2.10 |     | .35  |      | .58  |     |    |      | .34 |     |     |    |    |    |     |     |     |    |    |    |    | 3.87   |
| Anderson          | 1.06          |     |     |    |     | .25  |     |     |      | .80  | .30  | .05 | .30  | .24  | .79  |     |    |      | .70 |     |     |    |    |    |     |     |     |    |    |    |    | 4.86   |
| Augusta, Ga.      | .07           |     |     |    | .12 | .07  |     |     |      | 2.34 | .12  | .03 | .01  | .06  | .23  |     |    | .01  | .43 |     |     |    |    |    | .10 | .16 |     |    |    |    |    | 3.75   |
| Barksdale         |               |     |     |    | T.  | .15  |     |     |      | .75  | .30  | .15 | .20  | .15  | 1.00 |     |    | .45  |     |     |     |    |    |    |     |     |     |    |    |    |    | 3.15   |
| Batesburg         | 2.03          |     |     |    | .09 |      |     |     |      | .18  | 1.38 | .11 | .17  | .08  | .27  |     |    | .11  | .44 | T.  |     |    |    |    |     |     | .14 |    |    |    |    | 4.88   |
| Beaufort          | 1.46          |     |     |    | .01 |      |     |     |      | .74  | .95  | .08 | 1.40 |      | .31  |     |    |      | .46 |     |     |    |    |    | T.  | .06 |     |    |    |    |    | 5.47   |
| Bennettsville     |               |     |     |    | .06 | T.   |     |     |      | .91  | .06  | .13 | .10  | .50  |      |     |    | .60  | .12 |     |     |    |    |    | .50 |     |     |    |    |    |    | 2.98   |
| Blackville        |               |     |     |    | .06 |      |     |     | .28  | 2.07 | .07  | .18 | .04  | .75  |      |     |    | .36  | .03 |     |     |    |    |    |     | .30 |     |    |    |    |    | 4.16   |
| Blairs            | 1.74          |     |     |    | .08 |      |     |     |      | .10  | 1.50 | .20 | .34  | .10  | .94  |     |    |      | .60 |     |     |    |    |    |     |     | .08 |    |    |    |    | 5.68   |
| Bowman            | 1.68          |     |     |    |     |      |     |     |      | 1.05 | .92  | .58 | .78  | .62  | .46  |     |    |      | .45 |     |     |    |    |    | T.  |     |     |    |    |    |    | 6.54   |
| Calhoun Falls     | .79           | .91 | .21 |    |     |      |     |     |      | .74  | .87  | .39 | .18  | .25  | .97  |     |    | .11  | .24 |     |     |    |    |    |     | .33 |     |    |    |    |    | 6.29   |
| Camden (1)        | .51           |     |     |    | T.  | .15  |     |     |      | .89  | .97  | .18 | .23  | .14  | .74  |     |    | .70  |     |     |     |    |    |    |     | .27 |     |    |    |    |    | 4.78   |
| Camden (2)        | 1.70          |     |     |    |     |      |     |     |      | .24  | 1.40 | .32 | .26  | .04  | .28  |     |    |      | .66 | .08 |     |    |    |    |     | .20 |     |    |    |    |    | 5.24   |
| Catawba           | 1.40          |     |     |    | .40 |      |     |     |      |      | .52  | .30 | .62  | T.   | 1.20 |     |    |      | .90 |     |     |    |    |    |     | .50 |     |    |    |    |    | 5.14   |
| Chappells         | 1.88          |     |     |    |     |      |     |     |      | .20  | .62  | .12 |      |      | .52  |     |    |      | .21 |     |     |    |    |    |     |     |     |    |    |    |    | 3.58   |
| Charleston        | .44           |     |     |    | T.  | T.   |     |     |      | .82  | .40  | .16 | .57  | .09  | .36  |     |    | .31  |     |     | T.  |    |    |    |     | T.  |     |    |    |    |    | 3.15   |
| Charlotte, N. C.  | .07           |     |     |    | .19 | .65  |     |     |      | .85  | .20  | .29 | .16  | .19  | .49  |     |    | .04  | .92 |     | T.  |    |    |    | .07 | .23 |     |    |    |    |    | 3.75   |
| Cheraw (1)        | 1.31          |     |     |    | .14 |      |     |     |      | T.   | 1.15 | .11 | .26  | .10  | .49  |     |    | .84  |     |     |     |    |    |    |     | .39 |     |    |    |    |    | 4.79   |
| Cheraw (2)        | 1.34          |     |     |    | T.  | .13  |     |     |      | .02  | 1.16 | .12 | .28  | .12  | .48  |     |    | .84  | .08 |     | .02 |    |    |    | .34 |     |     |    |    |    |    | 4.93   |
| Clark's Hill      | .88           |     |     |    | .19 |      |     |     | T.   | 1.89 | .55  | .05 | .05  | T.   | .42  |     |    | .45  |     |     |     |    |    |    |     | .13 |     |    |    |    |    | 4.61   |
| Clemson College   |               |     |     |    | .43 |      |     |     |      | 2.05 |      | .23 | .17  | .11  | 1.38 |     |    | .79  |     |     |     |    |    |    |     | .27 |     |    |    |    |    | 5.43   |
| Columbia          | .28           |     |     |    | .11 | .04  |     |     |      | 1.46 | .36  | .38 | .02  | .07  | .45  |     |    | .48  |     |     |     |    |    |    | .06 | .09 |     |    |    |    |    | 3.80   |
| Conway            | 1.63          |     |     |    |     | T.   | .05 |     |      | .10  | 1.76 | .13 | 1.09 | 1.10 | .75  |     |    |      | .20 | .22 |     |    |    |    |     | .30 |     |    |    |    |    | 7.33   |
| Darlington        |               |     |     |    | T.  |      |     |     | .10  | 1.06 | .07  | .09 | .47  | .40  |      |     |    | .39  | .01 |     | T.  |    |    |    | .18 |     |     |    |    |    |    | 2.71   |
| Dillon            | 1.00          |     |     |    | .02 | .10  |     |     |      | .90  | .50  | .01 | .92  | .38  | .53  |     | T. |      | .60 |     |     | T. |    |    |     | .39 | T.  |    |    |    |    | 5.35   |
| Due West          |               |     |     |    |     |      |     |     |      |      |      |     |      |      |      |     |    |      |     |     |     |    |    |    |     |     |     |    |    |    |    |        |
| Effingham         | 1.16          |     |     |    |     | T.   |     |     |      | .75  | 2.00 | .75 | .90  | 1.20 | 1.06 |     |    | .90  |     |     |     |    |    |    |     | .40 |     |    |    |    |    | 9.66   |
| Ferguson          |               |     | T.  | T. |     |      |     | T.  | T.   | T.   | 1.51 | .24 | .39  | .60  | .52  |     |    | .48  |     |     | T.  |    |    |    |     | .20 |     |    |    |    |    | 3.86   |
| Florence          | 1.30          |     |     |    |     | .04  |     |     |      | .40  | .80  | .92 | .46  | .94  | .80  |     |    | .40  | .20 |     |     |    |    |    |     | .26 |     |    |    |    |    | 6.52   |
| Georgetown        |               |     |     |    |     |      |     |     |      | 1.80 | .90  | .87 | .47  | .20  |      |     |    | .12  |     |     |     |    |    |    | .20 |     |     |    |    |    |    | 4.56   |
| Greenville        | 1.80          |     |     |    |     | .50  |     |     |      | .10  | 1.70 | .36 | .12  | .41  | .58  |     |    | 1.00 | .08 |     |     |    |    |    |     |     |     |    |    |    |    | 6.65   |
| Greenwood         | 2.60          |     |     |    | .30 |      |     |     |      | .90  | .85  | .60 |      | .05  |      |     |    | .90  |     |     |     |    |    |    | .10 |     |     |    |    |    |    | 6.30   |
| Heath Spring      |               |     |     |    | .12 |      |     |     |      | 1.80 | .30  | .60 | .02  | .20  | .52  |     |    | .70  |     |     |     |    |    |    |     |     |     |    |    |    |    | 4.26   |
| Kings-tree (1)    | 1.90          |     |     |    |     | T.   | .50 | T.  |      | .02  | 1.37 | .33 | .40  | 1.08 | .48  |     |    | .30  | .16 |     |     |    |    |    |     | .12 |     |    |    |    |    | 6.66   |
| Kings-tree (2)    | 1.75          |     |     |    |     |      |     |     |      | .50  | 1.40 | .38 | .60  | 1.00 | .46  | .05 |    |      | .40 |     |     |    |    |    |     | .15 |     |    |    |    |    | 6.19   |
| Liberty           |               |     |     |    | .20 |      |     |     |      | .50  | 1.05 | .05 | .20  | .20  | 1.52 |     |    | .80  |     |     |     |    |    |    | .10 | .50 |     |    |    |    |    | 5.12   |
| Little Mountain   | 1.66          |     |     |    |     |      |     |     | .02  | .45  | .35  | .66 | .17  | .05  | 1.02 |     |    | .58  |     |     |     |    |    |    | .30 |     |     |    |    |    |    | 5.26   |
| Newberry          |               |     |     |    | .29 |      |     |     | .26  | 1.10 | .27  | .14 | .05  | .72  |      |     |    | .77  | .04 |     |     |    |    |    | .20 |     |     |    |    |    |    | 3.86   |
| Pelzer            | 1.6           |     |     |    | .25 |      |     |     |      | .26  | 1.04 | .40 | .15  | .56  | .88  |     |    | .88  |     |     |     |    |    |    |     | .60 |     |    |    |    |    | 6.02   |
| Pinopolis         |               |     |     |    |     |      |     |     |      |      |      |     |      |      |      |     |    |      |     |     |     |    |    |    |     |     |     |    |    |    |    |        |
| St. George        | 2.60          |     |     |    |     |      |     |     |      | .15  | 1.50 |     | .10  | .80  |      |     |    | .80  |     |     |     |    |    |    |     | .10 |     |    |    |    |    | 5.30   |
| St. Matthews      | 2.10          |     |     |    | .10 |      |     |     |      | .15  | 1.40 | .20 | .26  | .70  | .80  |     |    | .50  | .58 |     |     |    |    |    |     | .23 |     |    |    |    |    | 7.02   |
| St. Louis         | 1.05          |     |     |    | T.  | .22  |     |     |      | .90  | .60  | .07 | .06  | T.   | .64  |     |    | .60  | .01 |     |     |    |    |    |     | .18 |     |    |    |    |    | 4.93   |
| Santee            | 1.40          |     |     |    |     | .20  |     |     |      |      | 1.88 | .14 | .30  | .07  | .77  |     |    | .93  |     |     |     |    |    |    |     | .13 |     |    |    |    |    | 5.22   |
| Savannah, Ga.     | .83           |     |     |    | .02 |      |     |     | T.   | 1.55 | .25  | .03 | 1.24 | .09  | .29  |     |    | .27  |     |     |     |    |    |    | T.  | .05 |     |    |    |    |    | 4.62   |
| Smith Mills       | 1.44          |     |     |    | T.  | 1.31 | .51 | .62 | 1.12 | .08  | .20  |     |      | .28  | .11  | .11 |    |      |     |     |     |    |    |    |     |     |     |    |    |    |    | 5.78   |
| Society Hill      |               |     |     |    | .11 |      |     |     |      | 1.63 | .15  | .15 | .31  | .47  |      |     |    | .78  |     |     |     |    |    |    |     |     | T.  |    |    |    |    | 3.10   |
| Spartanburg       |               |     |     |    | .30 |      |     |     |      | .18  | .58  | .26 | .38  | .85  |      |     |    | .97  | .02 |     |     |    |    |    |     | .72 |     |    |    |    |    | 5.82   |
| Stateburg         |               |     |     |    |     |      |     |     |      | .65  | 1.28 | .15 | .28  | .01  | .67  |     |    | .83  |     |     |     |    |    |    |     | .22 |     |    |    |    |    | 4.09   |
| Summerville       | 2.13          |     |     |    | .01 |      |     |     |      | .78  | .82  | .27 | 1.11 | .50  | .50  |     |    | .41  | .01 |     |     |    |    |    | T.  | .13 |     |    |    |    |    | 6.67   |
| Trenton           | .95           |     |     |    | .14 |      |     |     |      | 1.40 | .45  | .02 | .05  | .03  | .96  |     |    | .51  |     |     |     |    |    |    |     | .26 |     |    |    |    |    | 4.77   |
| Trial             |               |     |     |    | .03 |      |     |     |      | 2.87 |      |     |      | .21  | .25  |     |    | .51  |     |     |     |    |    |    |     | .14 |     |    |    |    |    | 4.01   |
| Walhalla          | 2.30          |     |     |    | .70 |      |     |     |      | .13  | .87  | .45 | .35  | .19  | 1.70 |     |    | .88  |     |     |     |    |    |    |     | .59 | T.  |    |    |    |    | 8.16   |
| Walterboro        | 2.47          |     |     |    | .01 |      |     |     |      | .99  | .89  | .21 | .96  | .38  | .26  | .02 |    | .48  |     |     |     |    |    |    |     | T.  | .12 |    |    |    |    | 6.79   |
| Wilmington, N. C. | 1.11          |     |     |    | .04 | .21  |     |     |      | .50  | .23  | T.  | .75  | .89  | .86  |     |    | .62  |     |     |     |    |    |    |     | .47 | T.  |    | T. |    |    | 5.68   |
| Winnboro          |               |     |     |    | .50 |      |     |     | T.   | 2.00 | .40  | .55 | .30  | .40  |      |     |    | .25  |     |     |     |    |    |    | .40 |     |     |    |    |    |    | 4.80   |
| Winthrop College  | 1.50          |     |     |    | .28 |      |     |     |      | .20  | 1.40 | .20 | .20  | .05  | .70  |     | T. | 1.01 |     |     |     |    |    |    |     | .20 |     |    |    |    |    | 5.54   |
| Yemassee          | 2.51          |     |     |    |     |      |     |     |      | .10  | 1.88 | .06 | .27  | .62  | .66  |     |    | .36  | .09 |     |     |    |    |    |     | .11 |     |    |    |    |    | 6.66   |
| Yorkville         | 1.28          |     |     |    | .23 |      |     |     |      | .75  | .75  | .16 | .35  | .07  | .84  |     |    | 1.19 |     |     |     |    |    |    |     | T.  | .25 |    |    |    |    | 5.87   |

T. indicates trace, less than .01 inch.



827.46  
1908

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MARCH, 1908

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

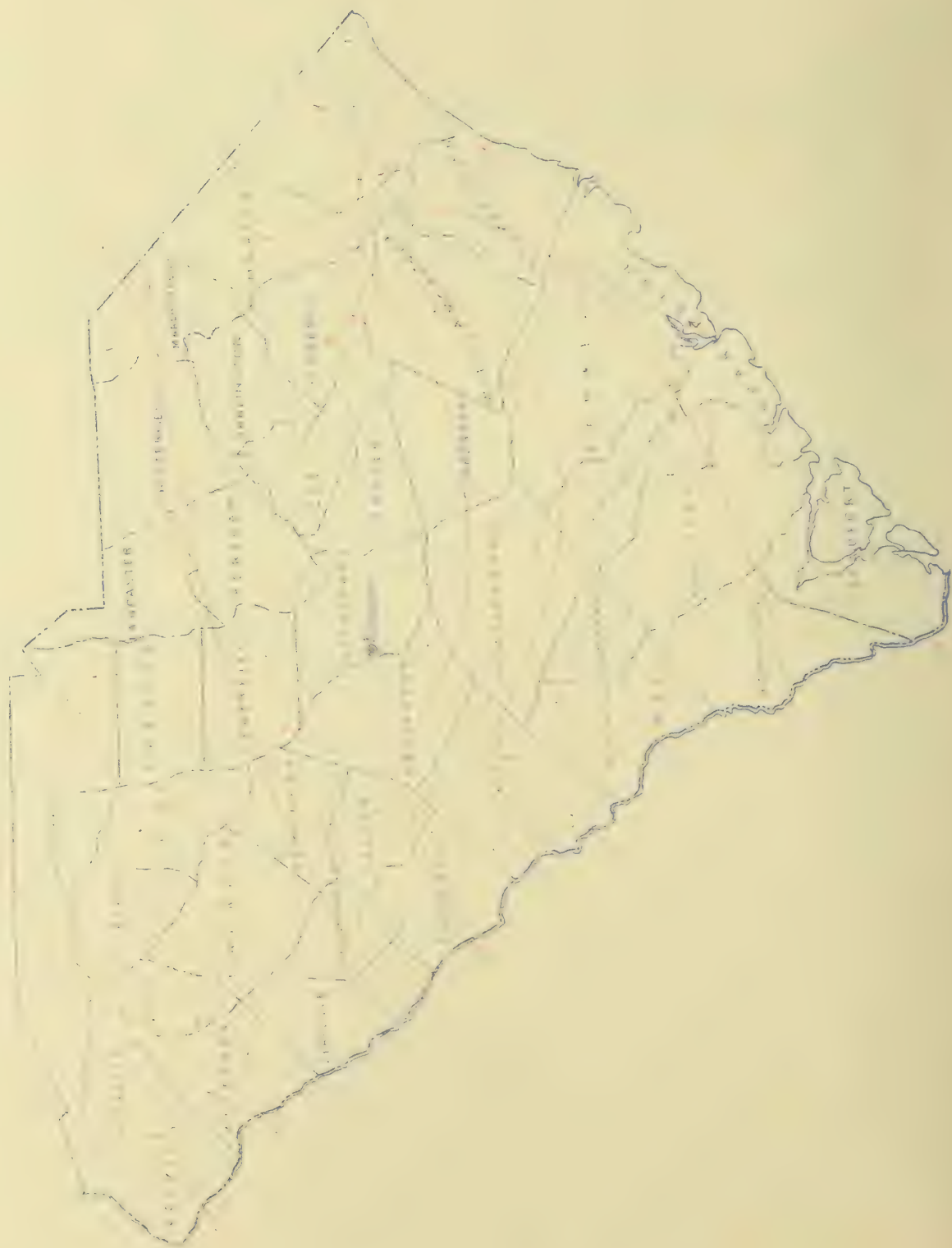
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

APRIL 25, 1908.

ADJUTANT GENERAL'S OFFICE, WASHINGTON, D.C.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. XI.

COLUMBIA, S. C., MARCH, 1908.

No. 3.

## GENERAL SUMMARY.

The month was unusually mild, with nearly normal, well distributed rainfall. Except last year when the mean temperature of the same month was  $0.6^{\circ}$  higher, it was the warmest March in the last 15 years. The sunshine was slightly above the average amount, and the number of days with rain was approximately normal.

The mean temperature was above the normal in all portions of the State, tho the departures were slightly greater in the central and western portions than in the coast regions. The highest temperatures were recorded in the southeastern portion where maximum temperatures of  $90^{\circ}$  occurred on several days. No freezing temperatures or frosts occurred in the coast regions. The highest temperatures were generally recorded from the 13th to the 18th, the latter having been the warmest day generally thruout the State. The lowest temperatures occurred from the 20th to the 22d, inclusive, and this was the only cool spell with freezing temperatures during the month, tho the mean temperature was slightly below the normal on the 10th and 11th.

The precipitation was unusually well distributed, the amounts at the various stations ranging from 4 inches to 6 inches, except along the immediate coast where the amounts ranged from about 2 inches to 4 inches. There were a few widely separated stations in the interior that received from 2 inches to 4 inches only. The rainfall was comparatively light during the first two decades and the latter portion of the third decade, and was heavy, in places excessive, from the 20th to the 24th inclusive. The precipitation in the western and northern portions on the 20th and 21st was mixed snow, sleet and rain. The snow melted by noon of the 21st. Over the remainder of the State the precipitation was all in the form of rain.

## TEMPERATURE.

The mean temperature was  $61.4^{\circ}$  which is  $6.3^{\circ}$  above the normal. The highest local mean was  $65.6^{\circ}$  at Aiken, the lowest was  $57.2^{\circ}$  at Greenville. The monthly extremes of temperature were  $90^{\circ}$  at Aiken on the 16th, at Blackville on the 13th, at Clarks Hill on the 18th and at Walterboro

on the 16th and 18th, and  $29^{\circ}$  at Dillon on the 21st and Santuc on the 22d, making the State range  $61^{\circ}$ . The greatest local monthly range was  $58^{\circ}$  at Dillon, the least was  $47^{\circ}$  at Batesburg and Beaufort. The mean of the daily maximum temperatures was  $72.6^{\circ}$  and of the daily minimum temperatures was  $50.2^{\circ}$ , making the average daily range  $22.4^{\circ}$ .

## PRECIPITATION.

The average precipitation was 4.56 inches which is 0.43 of an inch above the normal. The greatest local monthly amount was 7.00 inches at Effingham, the least was 1.75 inches at Georgetown. The greatest 24-hour rainfall was 3.20 inches at Summerville on the 24th. The average number of days with rain was 8, ranging from 4 days at Allendale to 12 days at Winthrop College.

EXCESSIVE PRECIPITATION.—At Bowman on the 24th, 2.80 inches in 24 hours; at Smiths Mills on the 25th, 2.75 inches in 24 hours; at Summerville on the 24th, 3.20 inches in 24 hours; at Trial on the 23d-24th, 2.50 inches in 24 hours; at Walterboro on the 24th, 2.51 inches in 24 hours.

## WIND.

The prevailing direction of the wind was southwest at 26 stations, south at 8 stations, west at 7 stations, east and northeast at 2 stations each, and southeast and northwest at 1 station each.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 15, of partly cloudy days was 8, and of cloudy days was 8.

## MISCELLANEOUS PHENOMENA.

SOLAR HALOS.—At Camden on the 28th.

LUNAR HALOS.—At Winthrop College on the 17th.

LUNAR CORONAE.—At Blackville on the 17th, at Newberry on the 18th, at Winthrop College on the 19th.

LIGHT FROSTS.—At Barksdale on the 21st; at Bowman on the 21st, 22d; Cheraw, Columbia, Trial on the 22d.

KILLING FROSTS.—At Liberty, Little Mountain, Yorkville on the 21st, 22d; at Newberry, Santuc, Spartanburg on the 22d.

THIN ICE.—At Batesburg on the 21st; at Georgetown, Greenwood on the 20th.

SLEET.—At Camden, Spartanburg, Yorkville on the 20th; at Winthrop College on the 21st.

SNOW.—At Cheraw, Winthrop College on the 21st; at Heath Springs, Society Hill, Spartanburg on the 20th.

DENSE FOGS.—At Camden, Cheraw on the 13th; at Columbia, Santuc, Society Hill on the 6th, 13th; at Georgetown on the 12th; at Newberry, Winthrop College on the 6th; at Summerville on the 23d; at Trial on the 14th; at Yorkville on the 5th, 6th, 12th.

THUNDERSTORMS.—Thunderstorms occurred in the eastern portion on the 3d, in the central and northeastern portions on the 16th, 17th and 19th, over the whole State on the 23d, and in the eastern portion on the 24th.



BAROMETER AND WIND TABLE FOR MARCH, 1908.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.13      | 30.56    | 10    | 29.75   | 23    | 5.300           | 7.1             | 38                | sw.        | 23    |
| Charleston.       | 30.15      | 30.54    | 10    | 29.76   | 24    | 9.094           | 12.2            | 36                | e.         | 30    |
| Charlotte, N. C.  | 30.13      | 30.65    | 10    | 29.71   | 23    | 6.482           | 8.7             | 32                | sw.        | 15    |
| Columbia.         | 30.13      | 30.61    | 10    | 29.70   | 23    | 6.692           | 9.0             | 36                | sw.        | 23    |
| Savannah, Ga.     | 30.16      | 30.52    | 10    | 29.73   | 24    | 6.742           | 9.1             | 27                | e.         | 30    |
| Wilmington, N. C. | 30.15      | 30.61    | 10    | 29.77   | 23    | 7.329           | 9.9             | 34                | sw.        | 23    |
| Averages.         | 30.15      | 30.65    | 10    | 29.70   | 23    | 6.940           | 9.3             | 38                | sw.        | 23    |

RIVER GAGE READINGS, MARCH, 1908.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 3.3   | 14.2     | 25    | 1.1     | 7     |
| Calhoun Falls.   | 4.1   | 10.1     | 24    | 2.9     | *18   |
| Camden           | 13.1  | 28.4     | 25    | 8.3     | 20    |
| Catawba          | 4.2   | 11.9     | 25    | 2.8     | 19    |
| Chappells        | 6.1   | 16.9     | 25    | 2.8     | *7    |
| Cheraw           | 11.5  | 30.6     | 25    | 4.8     | 20    |
| Columbia         | 4.3   | 17.0     | 25    | 1.5     | 8     |
| Effingham        | 7.3   | 11.8     | 31    | 5.0     | *18   |
| Ferguson.        |       |          |       |         |       |
| Kingstree        | 4.6   | 7.5      | 1     | 3.0     | 24    |
| Mt. Holly, N. C. | 2.6   | 6.6      | 24    | 2.0     | *30   |
| Pelzer           | 4.4   | 7.3      | 24    | 3.7     | 6     |
| Rimini           | 12.9  | 18.5     | 29    | 10.9    | 1     |
| Smith Mills      | 12.9  | 16.1     | 31    | 10.9    | 14    |

\* On other dates also.

## REMARKS BY OBSERVERS.

BATESBURG.—The month had a large amount of sunshine, and the winds were unusually light for the season. A thunderstorm occurred on the 17th and a slight freeze on the 21st.—E. J. Hite. BOWMAN.—The month was remarkable for its very pleasant weather, generally light winds, and almost general absence of destructive frost.—B. O. Evans. CAMDEN.—Snow and sleet fell on the night of the 20th and disappeared by 9 a. m. of the following morning.—J. B. Mickle. HEATH SPRINGS.—The weather was favorable thruout the month.—J. A. Weaner. LIBERTY.—The ground was well supplied with moisture thruout the month. Peach trees began to bloom on the 8th, apple and quince trees on the 15th, and pear trees on the 20th.—Jno. T. Boggs. SANTUC.—The month was very mild and at times the weather was warm. Only one frost occurred and that did no injury to vegetation which was unusually well advanced. The rainfall was well distributed.—E. W. Jeter. SOCIETY HILL.—The rainfall was excessive and somewhat damaging.—Maj. J. J. Lucas. SUMMERVILLE.—Relative humidity for the month 70 per

centum. An earthquake occurred at 4.06 p. m. of the 3d, and another at 1.50 p. m. of the 7th. The rainfall was excessive on the 24th.—Miss E. H. Gadsden. TRENTON.—The precipitation since January first is 0.88 of an inch in excess of the normal amount for the same period.—C. A. Long.

## CLIMATOLOGY OF LITTLE MOUNTAIN, S. C.

## Temperature.

| Year  | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1894. | 48   | 48   | 60   | 62    | 70   | 77   | 78   | 79   | 75    | 66   | 52   | 50   | 63    |
| 1895. | 45   | 38   | 54   | 62    | 69   | 78   | 80   | 79   | 80    | 64   | 56   | 48   | 63    |
| 1896. | 45   | 50   | 54   | 69    | 78   | 81   | 82   | 77   | 65    | 61   | 47   | 66   | 66    |
| 1897. | 44   | 51   | 55   | 63    | 69   | 79   | 81   | 78   | 75    | 67   | 56   | 48   | 64    |
| 1898. | 49   | 44   | 58   | 57    | 74   | 80   | 79   | 78   | 74    | 62   | 49   | 45   | 62    |
| 1899. | 43   | 42   | 55   | 60    | 75   | 81   | 82   | 82   | 73    | 64   | 55   | 44   | 63    |
| 1900. | 44   | 44   | 52   | 62    | 71   | 77   | 82   | 85   | 78    | 68   | 55   | 46   | 64    |
| 1901. | 45   | 43   | 54   | 56    | 72   | 78   | 83   | 79   | 73    | 62   | 48   | 44   | 61    |
| 1902. | 42   | 40   | 54   | 60    | 74   | 79   | 83   | 79   | 73    | 65   | 59   | 46   | 63    |
| 1903. | 43   | 50   | 60   | 69    | 72   | 74   | 81   | 81   | 72    | 63   | 51   | 42   | 62    |
| 1904. | 40   | 43   | 56   | 60    | 71   | 77   | 80   | 78   | 76    | 62   | 52   | 45   | 62    |
| 1905. | 40   | 37   | 58   | 64    | 73   | 80   | 81   | 78   | 77    | 63   | 55   | 43   | 62    |
| 1906. | 47   | 46   | 51   | 65    | 70   | 78   | 78   | 80   | 76    | 61   | 54   | 48   | 63    |
| 1907. | 52   | 45   | 62   | 56    | 70   | 76   | 81   | 79   | 76    | 61   | 51   | 46   | 63    |
| M's   | 44.7 | 44.3 | 55.9 | 61.2  | 72.1 | 78.1 | 80.7 | 79.8 | 75.3  | 63.8 | 54.1 | 45.8 | 63.0  |

## Precipitation.

| Year  | Jan. | Feb.  | Mar. | April | May  | June | July  | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|-------|------|-------|------|------|-------|------|-------|------|------|------|-------|
| 1894. | 3.12 | 5.11  | 0.71 | 2.15  | 4.08 | 1.85 | 6.31  | 8.13 | 3.73  | 5.38 | 1.37 | 2.66 | 44.60 |
| 1895. | 6.18 | 2.39  | 4.04 | 7.65  | 4.49 | 1.90 | 7.24  | 4.91 | 0.12  | 1.30 | 2.45 | 4.41 | 47.07 |
| 1896. | 3.61 | 7.27  | 2.98 | 1.64  | 1.60 | 4.58 | 11.38 | 3.37 | 6.74  | 1.50 | 3.27 | 2.61 | 59.55 |
| 1897. | 3.43 | 7.65  | 3.36 | 2.76  | 2.78 | 7.89 | 3.44  | 4.41 | 2.05  | 1.75 | 2.00 | 2.13 | 43.65 |
| 1898. | 1.80 | 0.64  | 4.80 | 5.75  | 1.51 | 3.80 | 6.48  | 5.15 | 3.31  | 2.16 | 4.91 | 1.28 | 41.57 |
| 1899. | 4.63 | 8.09  | 4.19 | 1.34  | 1.87 | 1.81 | 3.61  | 3.97 | 3.81  | 6.49 | 1.95 | 2.72 | 44.48 |
| 1900. | 1.84 | 7.06  | 4.22 | 6.04  | 2.39 | 6.49 | 2.71  | 3.43 | 3.92  | 4.37 | 4.58 | 4.93 | 51.98 |
| 1901. | 3.27 | 3.38  | 4.15 | 8.11  | 6.31 | 7.45 | 2.13  | 9.75 | 4.35  | 1.73 | 1.13 | 5.13 | 56.89 |
| 1902. | 2.33 | 4.98  | 4.43 | 2.54  | 2.89 | 4.82 | 3.03  | 6.18 | 2.94  | 5.93 | 2.91 | 3.29 | 46.27 |
| 1903. | 3.29 | 10.27 | 8.73 | 3.04  | 2.05 | 8.61 | 2.50  | 6.55 | 1.79  | 2.46 | 0.89 | 1.91 | 52.09 |
| 1904. | 2.63 | 3.43  | 1.99 | 1.36  | 2.78 | 2.12 | 3.74  | 7.20 | T.    | 0.71 | 2.94 | 3.52 | 32.48 |
| 1905. | 1.48 | 5.44  | 1.29 | 3.19  | 5.18 | 0.17 | 4.19  | 2.91 | 0.58  | 1.14 | 1.55 | 7.15 | 31.97 |
| 1906. | 4.09 | 1.30  | 6.57 | 1.49  | 2.79 | 6.13 | 4.01  | 7.50 | 5.48  | 1.62 | 0.69 | 2.79 | 44.46 |
| 1907. | 0.71 | 4.05  | 2.23 | 3.83  | 3.68 | 2.68 | 7.53  | 2.99 | 4.52  | 0.62 | 4.55 | 4.30 | 41.09 |
| M's   | 3.03 | 5.08  | 3.83 | 3.69  | 3.17 | 4.31 | 4.87  | 5.46 | 3.10  | 2.66 | 2.51 | 3.49 | 45.20 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 52                    | 1907  | 40                   | *1904 | 6.18              | 1895  | 0.71           | 1907  |
| February  | 51                    | 1897  | 37                   | 1905  | 10.27             | 1903  | 0.64           | 1898  |
| March     | 62                    | 1907  | 51                   | 1906  | 8.73              | 1903  | 0.71           | 1894  |
| April     | 69                    | *1896 | 56                   | *1901 | 8.11              | 1901  | 1.34           | 1899  |
| May       | 78                    | 1896  | 69                   | 1895  | 6.31              | 1901  | 1.51           | 1898  |
| June      | 81                    | 1899  | 74                   | 1903  | 8.61              | 1903  | 0.17           | 1905  |
| July      | 83                    | *1901 | 78                   | *1894 | 11.38             | 1896  | 2.13           | 1901  |
| August    | 85                    | 1900  | 78                   | *1897 | 9.75              | 1901  | 2.91           | 1905  |
| September | 80                    | 1895  | 72                   | 1903  | 6.74              | 1896  | T.             | 1904  |
| October   | 68                    | 1900  | 61                   | *1906 | 6.49              | 1899  | 0.62           | 1907  |
| November  | 61                    | 1896  | 48                   | 1901  | 4.91              | 1898  | 0.69           | 1906  |
| December  | 50                    | 1894  | 42                   | 1903  | 7.15              | 1905  | 1.28           | 1898  |

\* And other years.

COMPARATIVE MARCH DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          |          | Precipitation.    |                      |                |                     | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |
|-----------|--------------|------------------|------------------|----------|----------|----------|-------------------|----------------------|----------------|---------------------|--------------------------|----------------------------------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average. | Greatest Monthly. |                      | Least Monthly. |                     |                          |                                  |
|           |              |                  |                  |          |          |          | Amount.           | Place.               | Amount.        | Place.              |                          |                                  |
| 1894..... | 59.3         | 70.0             | 48.6             | 90       | 15       | 2.08     | 3.49              | Pinopolis.           | 0.71           | Little Mountain.    | 7                        | sw.                              |
| 1895..... | 53.5         | 63.1             | 43.7             | 90       | 24       | 5.71     | 7.64              | Trenton.             | 3.66           | Kingstree.          | 11                       | sw.                              |
| 1896..... | 53.1         | 64.5             | 51.5             | 93       | 19       | 2.12     | 4.19              | Allendale.           | T.             | Shaw's Fork.        | 5                        | sw.                              |
| 1897..... | 56.4         | 65.5             | 47.3             | 92       | 21       | 4.54     | 7.81              | Gillisonville.       | 2.15           | Conway.             | 12                       | sw.                              |
| 1897..... | 59.1         | 68.8             | 49.4             | 92       | 22       | 2.99     | 5.38              | Trenton.             | 1.36           | Allendale.          | 7                        | ne.                              |
| 1898..... | 55.2         | 66.3             | 44.0             | 89       | 12       | 3.89     | 9.10              | Central.             | 1.51           | Beaufort.           | 9                        | sw.                              |
| 1899..... | 51.6         | 62.6             | 40.6             | 79       | 22       | 4.22     | 7.58              | Greenville.          | 0.98           | Pinopolis.          | 9                        | sw.                              |
| 1900..... | 53.4         | 64.9             | 41.9             | 86       | 10       | 4.36     | 8.64              | Greenville, Liberty. | 2.27           | Pinopolis, Yemassee | 8                        | sw.                              |
| 1901..... | 54.0         | 65.1             | 43.0             | 86       | 19       | 4.08     | 7.19              | Trenton.             | 1.90           | Darlington.         | 10                       | sw.                              |
| 1902..... | 60.4         | 69.4             | 51.4             | 84       | 26       | 5.92     | 11.14             | Batesburg.           | 1.53           | Bowman.             | 10                       | ne.                              |
| 1903..... | 56.2         | 69.7             | 44.4             | 87       | 23       | 3.42     | 5.52              | Walhalla.            | 1.54           | Charleston.         | 9                        | ne.                              |
| 1904..... | 57.8         | 69.2             | 46.5             | 93       | 28       | 2.15     | 3.06              | Cheraw.              | 0.89           | Anderson.           | 6                        | ne.                              |
| 1905..... | 51.6         | 62.4             | 40.8             | 82       | 18       | 5.34     | 10.25             | Walhalla.            | 3.26           | St. Matthews.       | 10                       | w.                               |
| 1906..... | 62.0         | 74.3             | 49.7             | 99       | 20       | 1.57     | 3.02              | Clemson College.     | 0.59           | Blackville.         | 5                        | sw.                              |
| 1907..... | 61.4         | 72.6             | 50.2             | 90       | 29       | 4.56     | 7.00              | Effingham.           | 1.75           | Georgetown.         | 8                        | sw.                              |



CLIMATOLOGICAL DATA FOR THE MONTH OF MARCH, 1908.

| STATIONS                   | Counties     | Elevation, feet. | Length of record, years. | Temperature—degrees Fahrenheit |                            |          |       |         |       | Precipitation—inches  |        |                            |                       |                     |                    | Sky                |                            |                          |       |                        |  | Observers |
|----------------------------|--------------|------------------|--------------------------|--------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|--------|----------------------------|-----------------------|---------------------|--------------------|--------------------|----------------------------|--------------------------|-------|------------------------|--|-----------|
|                            |              |                  |                          | Mean.                          | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snow, melted. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number of overcast days. |       |                        |  |           |
|                            |              |                  |                          |                                |                            |          |       |         |       |                       |        |                            |                       |                     |                    |                    |                            |                          |       |                        |  |           |
| Aiken                      | Aiken        | 505              | 21                       | 65.6                           | +1.7                       | 90       | 16    | 33      | 21    | 42                    | 4.18   | -0.29                      | 2.00                  | 0                   | 5                  | 20                 | 5                          | 6                        | 8.    | C. F. McGahan, M. D.   |  |           |
| Allendale                  | Barnwell     | 186              | 20                       | 64.2                           | +7.2                       | 89       | 18    | 34      | 1     | 38                    | 3.80   | -0.09                      | 2.00                  | 0                   | 4                  | 26                 | 0                          | 5                        | ..... | A. R. Hiers.           |  |           |
| Anderson                   | Anderson     | 704              | 7                        | 58.8                           | +6.6                       | 86       | 17    | 31      | 21    | 36                    | 4.82   | -0.10                      | 2.36                  | 0                   | 9                  | 12                 | 8                          | 11                       | w.    | H. H. Russell.         |  |           |
| Augusta, Ga.               | Richmond     | 144              | 37                       | 63.2                           | +6.3                       | 86       | 18    | 36      | 21    | 30                    | 3.89   | -0.94                      | 1.90                  | 0                   | 8                  | 20                 | 5                          | 6                        | sw.   | Weather Bureau.        |  |           |
| Barksdale                  | Laurens      | 680              | 7                        | 64.0                           | .....                      | 85       | 18    | 32      | 21    | 37                    | .....  | .....                      | .....                 | .....               | 14                 | 5                  | 5                          | 8                        | sw.   | J. T. Garrett.         |  |           |
| Batesburg                  | Lexington    | 656              | 20                       | 58.7                           | +3.8                       | 79       | *18   | 32      | 21    | 32                    | 2.80   | -2.18                      | 0.95                  | 0                   | 7                  | 16                 | 3                          | 12                       | e.    | E. J. Hite.            |  |           |
| Beaufort                   | Beaufort     | 20               | 22                       | 62.8                           | +4.0                       | 84       | 16    | 37      | 21    | 26                    | .....  | .....                      | .....                 | .....               | 11                 | 5                  | 5                          | 8                        | s.    | S. M. Benton.          |  |           |
| Bennettsville              | Marlboro     | 151              | 7                        | 60.4                           | .....                      | 87       | 29    | 31      | 21    | 37                    | 1.60   | .....                      | 1.10                  | 0                   | 9                  | 20                 | 5                          | 6                        | w.    | C. S. McCall.          |  |           |
| Blackville                 | Barnwell     | 206              | 20                       | 64.5                           | +7.4                       | 90       | *13   | 33      | 20    | 40                    | 5.12   | 1.44                       | 2.65                  | 0                   | 10                 | 15                 | 7                          | 9                        | sw.   | Miss M. E. Lange.      |  |           |
| Blains                     | Fairfield    | 203              | 3                        | .....                          | .....                      | 87       | ..... | 33      | 20    | 34                    | 4.64   | .....                      | 1.24                  | 0                   | 7                  | 15                 | 8                          | 8                        | s.    | T. S. McMeekin.        |  |           |
| Bowman                     | Orangeburg   | 160              | 7                        | 62.8                           | .....                      | 87       | 18    | 33      | 20    | 34                    | 5.83   | .....                      | 2.80                  | 0                   | 6                  | 19                 | 5                          | 7                        | w.    | B. O. Evans.           |  |           |
| Calhoun Falls              | Abbeville    | 508              | 15                       | .....                          | .....                      | 87       | ..... | 33      | 20    | 34                    | 3.18   | 1.58                       | 0.91                  | 0                   | 6                  | 22                 | 0                          | 9                        | sw.   | P. J. Pfeiffer.        |  |           |
| Candlen (1)                | Kershaw      | 222              | 12                       | 61.6                           | .....                      | 85       | *18   | 31      | 21    | 43                    | 4.83   | .....                      | 1.43                  | 0                   | 10                 | 21                 | 3                          | 7                        | sw.   | J. B. Mickle.          |  |           |
| Candlen (2)                | Kershaw      | 222              | 12                       | .....                          | .....                      | 85       | ..... | 31      | 21    | 43                    | 4.42   | +0.84                      | 1.00                  | 0                   | 9                  | 16                 | 6                          | 9                        | e.    | W. C. Brown.           |  |           |
| Catawba                    | York         | 192              | 3                        | .....                          | .....                      | 87       | ..... | 33      | 20    | 40                    | 4.50   | .....                      | 1.10                  | 0                   | 9                  | 16                 | 6                          | 9                        | s.    | Jas. C. Farris.        |  |           |
| Chapells                   | Newberry     | 192              | 3                        | .....                          | .....                      | 87       | ..... | 33      | 20    | 40                    | 4.85   | .....                      | 1.78                  | 0                   | 5                  | 14                 | 7                          | 10                       | sw.   | W. R. Zimmerman.       |  |           |
| Charleston                 | Charleston   | 48               | 39                       | 62.2                           | +5.0                       | 84       | 16    | 36      | 21    | 26                    | 2.16   | 1.50                       | 1.34                  | 0                   | 8                  | 17                 | 7                          | 7                        | sw.   | Weather Bureau.        |  |           |
| Charlotte, N. C.           | Mecklenburg  | 808              | 30                       | 57.6                           | +6.6                       | 82       | 10    | 30      | 21    | 31                    | 4.27   | -0.30                      | 1.35                  | 0.9                 | 12                 | 10                 | 12                         | 9                        | sw.   | Weather Bureau.        |  |           |
| Cheraw (1)                 | Chesterfield | 144              | 20                       | 59.4                           | +5.9                       | 86       | 10    | 31      | *21   | 36                    | 5.74   | +1.95                      | 1.30                  | 0                   | 9                  | 11                 | 6                          | 14                       | s.    | W. R. Godfrey.         |  |           |
| Cheraw (2)                 | Chesterfield | 144              | 15                       | .....                          | .....                      | 87       | ..... | 33      | 20    | 34                    | 5.94   | +1.91                      | 1.52                  | 0.4                 | 9                  | 10                 | 6                          | 10                       | s.    | Jno. H. Powe.          |  |           |
| Clarks Hill                | Edgefield    | 500              | 6                        | 61.0                           | .....                      | 90       | 18    | 33      | *21   | 34                    | 4.84   | .....                      | 1.70                  | 0                   | 7                  | 10                 | 5                          | 15                       | ..... | Wm. S. Middleton.      |  |           |
| Clemson College            | Oconee       | 850              | 17                       | 57.8                           | +5.5                       | 81       | 18    | 33      | 22    | 30                    | 5.24   | +0.47                      | 1.41                  | 0                   | 8                  | 18                 | 5                          | 8                        | sw.   | Jno. N. Hook.          |  |           |
| Columbia                   | Richland     | 351              | 21                       | 60.6                           | +6.6                       | 85       | 18    | 33      | 21    | 36                    | 4.15   | +0.45                      | 1.38                  | 0                   | 10                 | 10                 | 12                         | 9                        | sw.   | Central Office.        |  |           |
| Conway                     | Horry        | 25               | 16                       | 61.4                           | .....                      | 88       | 10    | 32      | 21    | 34                    | 5.12   | +1.32                      | 1.52                  | 0                   | 10                 | 20                 | 2                          | 9                        | sw.   | P. C. Quattlebaum.     |  |           |
| Darlington                 | Darlington   | 175              | 13                       | 60.4                           | .....                      | 87       | *10   | 31      | *21   | 45                    | 3.32   | +0.05                      | 1.00                  | 0                   | 8                  | .....              | .....                      | .....                    | ..... | D. C. McCall.          |  |           |
| Dillon                     | Marion       | 100              | 4                        | 61.0                           | .....                      | 87       | 19    | 29      | 21    | 39                    | 5.46   | .....                      | 1.65                  | 0                   | 9                  | .....              | .....                      | .....                    | ..... | A. E. Rowell.          |  |           |
| Due West                   | Abbeville    | 730              | 1                        | .....                          | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....               | .....              | .....              | .....                      | .....                    | ..... | Rev. O. Y. Bonner.     |  |           |
| Ellingham                  | Florence     | 106              | 16                       | .....                          | .....                      | .....    | ..... | .....   | ..... | .....                 | 7.00   | +3.46                      | 1.50                  | 0                   | 9                  | 21                 | 0                          | 10                       | sw.   | H. B. McCall.          |  |           |
| Ferguson                   | Florence     | 136              | 1                        | .....                          | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....               | .....              | .....              | .....                      | .....                    | ..... | John T. Bowers.        |  |           |
| Florence                   | Florence     | 136              | 20                       | 61.4                           | +6.1                       | 89       | *18   | 32      | 22    | 38                    | 3.89   | +0.46                      | 1.25                  | 0                   | 7                  | 12                 | 4                          | 15                       | sw.   | H. K. Gilbert.         |  |           |
| Georgetown                 | Georgetown   | 12               | 15                       | 62.9                           | +5.3                       | 87       | 10    | 33      | *20   | 40                    | 1.75   | -1.83                      | 0.67                  | 0                   | 5                  | 21                 | 3                          | 7                        | sw.   | Wm. Alden James.       |  |           |
| Greenville                 | Greenville   | 989              | 16                       | 57.2                           | +5.7                       | 83       | 18    | 30      | 21    | 35                    | 4.24   | -0.95                      | 1.15                  | 0                   | 8                  | 17                 | 2                          | 12                       | sw.   | Mrs. S. A. Crittenden. |  |           |
| Greenwood                  | Greenwood    | 671              | 20                       | 58.8                           | +6.0                       | 84       | 18    | 33      | *21   | 33                    | 4.23   | -0.14                      | 1.80                  | 0                   | 6                  | 16                 | 0                          | 15                       | w.    | M. M. Calhoun.         |  |           |
| Heath Spring               | Lancaster    | 568              | 7                        | 60.6                           | .....                      | 83       | *18   | 35      | 21    | 28                    | 5.20   | .....                      | 1.61                  | T.                  | 11                 | 19                 | 7                          | 5                        | w.    | J. A. Wenner.          |  |           |
| Kingsree (1)               | Williamsburg | 54               | 20                       | 64.4                           | +7.5                       | 87       | 19    | 34      | 21    | 30                    | 5.14   | +1.86                      | 1.90                  | 0                   | 7                  | 19                 | 2                          | 9                        | se.   | J. A. Scott.           |  |           |
| Kingsree (2)               | Williamsburg | 54               | 14                       | .....                          | .....                      | 87       | ..... | 34      | 21    | 30                    | 5.07   | +1.81                      | 2.33                  | 0                   | 5                  | 21                 | 2                          | 8                        | ne.   | A. O. Matthews.        |  |           |
| Liberty                    | Pickens      | 900              | 14                       | 58.2                           | +6.3                       | 83       | 18    | 31      | 21    | 32                    | 5.80   | +0.67                      | 1.80                  | 0                   | 10                 | 16                 | 7                          | 8                        | sw.   | Jno. T. Boggs.         |  |           |
| Little Mountain            | Newberry     | 630              | 15                       | 61.2                           | +5.7                       | 85       | *18   | 32      | *21   | 36                    | 4.94   | +0.99                      | 2.00                  | 0                   | 7                  | 12                 | 11                         | 8                        | sw.   | John M. Searse, M. D.  |  |           |
| Newberry                   | Newberry     | 502              | 4                        | 60.8                           | +6.8                       | 85       | *18   | 32      | *21   | 43                    | 4.28   | -0.04                      | 1.13                  | 0                   | 9                  | 6                  | 15                         | 10                       | sw.   | W. G. Peterson.        |  |           |
| Pelzer                     | Anderson     | 873              | 3                        | .....                          | .....                      | .....    | ..... | .....   | ..... | .....                 | 5.11   | .....                      | 1.38                  | 0                   | 9                  | 15                 | 7                          | 8                        | w.    | John M. Ward.          |  |           |
| Pinopolis                  | Berkeley     | 54               | 15                       | .....                          | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....               | .....              | .....              | .....                      | .....                    | ..... | E. P. Ravenel.         |  |           |
| St. George                 | Dorchester   | 109              | 20                       | 64.0                           | +6.9                       | 85       | *18   | 35      | 21    | 31                    | 4.10   | +0.82                      | 1.80                  | 0                   | 5                  | 21                 | 0                          | 10                       | ..... | G. T. Lewis.           |  |           |
| St. Matthews               | Orangeburg   | 209              | 20                       | 61.6                           | +5.9                       | 85       | *18   | 32      | 21    | 35                    | 4.20   | +0.70                      | 1.40                  | 0                   | 8                  | 22                 | 0                          | 9                        | ..... | J. S. Wainmaker.       |  |           |
| Saluda                     | Saluda       | 516              | 6                        | 61.9                           | .....                      | 86       | 18    | 32      | *21   | 47                    | 4.84   | .....                      | 1.45                  | 0                   | 7                  | 24                 | 0                          | 7                        | sw.   | Alvin Etheridge.       |  |           |
| Santee                     | Union        | 512              | 14                       | 59.3                           | +6.4                       | 84       | *18   | 29      | 22    | 40                    | 4.49   | +0.08                      | 1.45                  | 0.5                 | 8                  | 8                  | 16                         | 7                        | sw.   | E. W. Jeter.           |  |           |
| Savannah, Ga.              | Chatham      | 71               | 39                       | 65.2                           | +6.9                       | 86       | 15    | 38      | 21    | 35                    | 2.44   | -2.21                      | 1.93                  | 0                   | 4                  | 16                 | 7                          | 8                        | sw.   | Weather Bureau.        |  |           |
| Smith Mills                | Williamsburg | 62               | 13                       | .....                          | .....                      | .....    | ..... | .....   | ..... | .....                 | 5.25   | +1.21                      | 2.75                  | 0                   | 9                  | 19                 | 3                          | 9                        | s.    | W. G. Walker.          |  |           |
| Society Hill               | Darlington   | 192              | 17                       | 60.0                           | +4.8                       | 83       | *18   | 31      | 20    | 40                    | 5.30   | +2.02                      | 1.06                  | 0.5                 | 9                  | 19                 | 3                          | 9                        | sw.   | J. J. Lucas.           |  |           |
| Spartanburg                | Spartanburg  | 875              | 17                       | 58.6                           | +7.6                       | 85       | *14   | 30      | 21    | 40                    | 4.87   | +0.31                      | 1.32                  | 0                   | 8                  | 14                 | 0                          | 17                       | ..... | F. P. Robinson.        |  |           |
| Stateburg                  | Sumter       | 500              | 31                       | 62.6                           | +7.6                       | 87       | 19    | 32      | 21    | 41                    | 4.88   | +1.14                      | 1.79                  | 0                   | 9                  | 5                  | 16                         | 10                       | sw.   | W. W. Anderson, M. D.  |  |           |
| Summerville                | Dorchester   | 75               | 11                       | 64.1                           | +5.3                       | 89       | 19    | 35      | 21    | 34                    | 4.84   | +1.93                      | 3.20                  | 0                   | 9                  | 14                 | 12                         | 5                        | sw.   | Miss E. H. Gadsden.    |  |           |
| Trenton                    | Edgefield    | 620              | 15                       | 62.8                           | +6.0                       | 84       | *18   | 32      | 21    | 36                    | 4.42   | -0.13                      | 1.71                  | 0                   | 6                  | 14                 | 11                         | 6                        | s.    | C. A. Long.            |  |           |
| Trial                      | Berkeley     | 85               | 22                       | 62.2                           | +6.7                       | 87       | *18   | 33      | 22    | 34                    | 4.86   | +1.31                      | 2.50                  | 0                   | 8                  | 10                 | 16                         | 5                        | sw.   | Etsel Gaillard.        |  |           |
| Walhalla                   | Oconee       | 1061             | 17                       | .....                          | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....               | .....              | .....              | .....                      | .....                    | ..... | Miss Jessie Douthit.   |  |           |
| Walterboro                 | Colleton     | 69               | 5                        | 66.1                           | .....                      | 90       | *16   | 35      | *21   | 34                    | 4.02   | .....                      | 2.51                  | 0                   | 6                  | 20                 | 5                          | 6                        | ..... | J. A. Westerberg.      |  |           |
| Wilmington, N. C.          | New Hanover  | 52               | 39                       | 59.4                           | +5.7                       | 84       | 19    | 31      | 21    | 33                    | 4.71   | +1.12                      | 1.52                  | T.                  | 9                  | 15                 | 11                         | 5                        | sw.   | Weather Bureau.        |  |           |
| Winnboro                   | Fairfield    | 545              | 19                       | 59.9                           | +6.8                       | 82       | 18    | 35      | 21    | 35                    | 5.25   | +1.67                      | 2.00                  | 0                   | 7                  | 19                 | 6                          | 6                        | w.    | John W. Seigler.       |  |           |
| Winthrop College           | York         | 690              | 9                        | 59.5                           | .....                      | 83       | *18   | 31      | 21    | 32                    | 4.07   | .....                      | 1.02                  | 0                   | 12                 | 18                 | 6                          | 7                        | sw.   | E. R. Rivers.          |  |           |
| Yemassee                   | Beaufort     | 23               | 13                       | 64.1                           | +5.8                       | 87       | 15    | 36      | 21    | 31                    | 4.30   | +0.81                      | 1.93                  | 0                   | 7                  | 23                 | 0                          | 8                        | ..... | J. G. Hutson.          |  |           |
| Yorkville                  | York         | 680              | 20                       | 60.3                           | +6.5                       | 86       | 19    | 31      | 21    | 35                    | 4.41   | -0.40                      | 1.24                  | 0.5                 | 9                  | 5                  | 15                         | 11                       | sw.   | J. R. Schorb.          |  |           |
| Means, extremes, and dates |              |                  |                          | 61.4                           | +6.3                       | 90       | *13   | 29      | *1    | 47                    | 4.56   | +0.43                      | 3.20                  | T.                  | 8                  | 15                 | 8                          | 8                        | sw.   |                        |  |           |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

MARCH, 1908.

DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MARCH, 1908.

| STATIONS. |      | JANUARY. |      |      |      |      |      |      |      |      |      |      |      | FEBRUARY. |      |      |      |      |      |      |      |      |      |      |      | MARCH. |      |      |      |      |      |      |      |      |      |      |      | Monthly mean. |      |
|-----------|------|----------|------|------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|---------------|------|
|           |      | 1        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 1         | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 1      | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |               |      |
| Max.      | Min. | Max.     | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max.      | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max.   | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max.          | Min. |
| 71        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70            | 54   |
| 75        | 54   | 72       | 56   | 72   | 58   | 70   | 55   | 70   | 55   | 70   | 54   | 70   | 55   | 70        | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70   | 54   | 70   | 55   | 70     | 54   |      |      |      |      |      |      |      |      |      |      |               |      |

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs. The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



TOTAL PRECIPITATION FOR MARCH II, 1908.



## DAILY PRECIPITATION FOR SOUTH CAROLINA. MARCH, 1908.

| STATIONS.         | Day of Month. |     |     |     |     |     |   |     |     |      |      |      |      |    |    |    |     |    |    |    |      |      |      |      |      |      |     |    |    |    |    | Total. |      |      |
|-------------------|---------------|-----|-----|-----|-----|-----|---|-----|-----|------|------|------|------|----|----|----|-----|----|----|----|------|------|------|------|------|------|-----|----|----|----|----|--------|------|------|
|                   | 1             | 2   | 3   | 4   | 5   | 6   | 7 | 8   | 9   | 10   | 11   | 12   | 13   | 14 | 15 | 16 | 17  | 18 | 19 | 20 | 21   | 22   | 23   | 24   | 25   | 26   | 27  | 28 | 29 | 30 | 31 |        |      |      |
| Aiken             |               |     |     |     |     |     |   |     |     |      | .05  | .40  |      |    |    |    |     |    |    |    | .40  | .20  |      | 1.33 | 2.00 |      |     |    |    |    |    |        | 4.18 |      |
| Allendale         |               |     |     |     |     |     |   |     |     |      |      | .42  | .22  |    |    |    |     |    |    |    |      | .20  |      | 2.00 | 1.00 | .60  |     |    |    |    |    |        | 3.80 |      |
| Anderson          |               |     | .01 |     |     |     |   |     |     |      |      | .22  | .09  |    |    |    |     |    |    |    | 1.33 | .04  | .31  | 2.36 | .08  |      |     |    |    |    |    | .05    | 4.82 |      |
| Augusta, Ga.      |               |     | .02 | .02 | T.  |     |   |     |     |      |      |      |      |    |    |    |     |    |    |    | .58  |      | .40  | .94  | 1.62 |      |     |    |    |    |    |        | 3.89 |      |
| Barksdale         |               |     |     |     |     |     |   |     |     |      |      |      |      |    |    |    |     |    |    |    | 1.00 |      |      | .90  |      |      |     |    |    |    |    | T.     | 3.89 |      |
| Batesburg         |               |     |     |     | T.  |     |   |     |     |      | .11  | .23  |      |    |    |    |     |    |    |    | .24  | .64  |      | .43  | .95  | .20  |     |    |    |    |    |        | 2.80 |      |
| Beaufort          |               |     |     | .04 |     |     |   |     |     |      | T.   | .09  | .02  |    |    |    |     |    |    |    |      | 2.08 |      |      |      |      |     |    |    |    |    |        |      |      |
| Bennettsville     |               | .07 |     |     | .20 |     |   |     | .18 |      | 1.10 |      |      |    |    |    |     |    |    |    | .20  | .90  | .73  | .53  |      |      |     |    |    |    |    | T.     | 4.60 |      |
| Blackville        |               |     | .05 |     |     |     |   |     | .09 | .33  | .08  |      |      |    |    |    | .05 |    |    |    | .69  | .20  |      |      |      |      |     |    |    |    |    |        | 4.60 |      |
| Blairs            |               |     | .01 |     |     |     |   |     |     | .06  | .64  |      |      |    |    |    |     |    |    |    | .31  |      |      | 2.65 | .50  |      |     |    |    |    |    |        | 5.12 |      |
| Bowman            |               |     |     | .12 | T.  |     |   |     |     |      | 1.35 |      |      |    |    |    |     |    |    |    | .66  | 1.04 |      | .94  | 1.24 |      |     |    |    |    |    |        | 4.64 |      |
| Calhoun Falls     |               |     |     |     |     |     |   |     |     |      | .16  | .39  |      |    |    |    |     |    |    |    | .40  |      | T.   | 1.10 | 2.80 |      |     |    |    |    |    |        | 5.83 |      |
| Camden (1)        |               |     | .02 | .06 | .01 |     |   |     |     |      | .12  | .48  | .37  |    |    |    |     |    |    |    | .26  | .84  |      | .62  | .91  |      |     |    |    |    |    |        | 3.18 |      |
| Camden (2)        |               |     |     | .04 |     |     |   |     |     |      | .16  | .06  | .30  |    |    |    |     |    |    |    | 1.16 | .22  | T.   | .96  | 1.43 |      |     |    |    |    |    |        | 4.83 |      |
| Catawba           |               |     |     |     |     | .04 |   |     |     |      | .18  |      | .80  |    |    |    |     |    |    |    | .60  | .76  |      | .98  | 1.00 | .52  |     |    |    |    |    |        | 4.42 |      |
| Chappells         |               |     |     |     |     |     |   |     |     |      | .20  |      |      |    |    |    |     |    |    |    | .60  | .80  |      | 1.10 | .86  | .08  |     |    |    |    |    |        | T.   | 4.50 |
| Charleston        |               |     | T.  | .09 |     |     |   |     |     |      | .04  | .05  | .01  |    |    |    |     |    |    |    | 1.01 | .82  |      | 1.04 | 1.78 |      |     |    |    |    |    |        | 4.85 |      |
| Charlotte, N. C.  |               | .02 |     | .01 | .17 | T.  |   |     |     |      | .60  | .68  |      |    |    |    |     |    |    |    | .19  |      | .19  | .25  | 1.34 |      |     |    |    |    |    |        | 2.16 |      |
| Cheraw (1)        |               |     | .04 |     | T.  | .20 |   |     |     |      | .31  |      | 1.28 |    |    |    |     |    |    |    | .16  |      | .06  | 1.35 | .01  |      |     |    |    |    |    |        | .02  | 4.27 |
| Cheraw (2)        |               |     | .04 |     | T.  | .21 |   |     |     |      |      | 1.52 |      |    |    |    |     |    |    |    | .58  | .85  |      | .90  | 1.30 | .28  |     |    |    |    |    |        | 5.74 |      |
| Clark's Hill      |               |     |     |     | T.  |     |   |     |     |      | .30  | .40  |      |    |    |    |     |    |    |    | .58  | .92  |      | .94  | 1.28 | .33  |     |    |    |    |    |        | .02  | 5.84 |
| Clemson College   |               |     | .07 |     |     |     |   |     |     |      | .36  | .47  |      |    |    |    |     |    |    |    | .63  |      | .25  | 1.36 | 1.70 |      |     |    |    |    |    |        | .02  | 4.84 |
| Columbia          |               |     | .07 |     |     |     |   |     | .12 | .02  | .27  | .07  |      |    |    |    |     |    |    |    | .84  | .66  | .12  | 1.31 | 1.41 |      |     |    |    |    |    |        | 5.24 |      |
| Conway            |               |     |     |     | T.  | .15 |   |     |     |      | .09  | .03  | .79  |    |    |    |     |    |    |    | 1.27 |      | .20  | 1.06 | 1.01 |      |     |    |    |    |    |        | 4.15 |      |
| Darlington        |               |     |     |     |     |     |   |     |     |      | .08  | 1.00 |      |    |    |    |     |    |    |    | .05  | .93  |      | .86  | .65  | 1.52 |     |    |    |    |    |        | 5.12 |      |
| Dillon            |               |     | T.  | T.  | .14 |     |   |     |     |      | .16  | .05  | .17  |    |    |    |     |    |    |    | .32  | .33  | .41  | .33  | .75  |      |     |    |    |    |    |        | 3.32 |      |
| Due West          |               |     |     |     |     |     |   |     |     |      |      |      |      |    |    |    |     |    |    |    | 1.15 | .28  | T.   | .83  | 1.65 |      |     |    |    |    |    |        | 5.46 |      |
| Effingham         |               |     |     |     |     | .25 |   |     |     |      | .25  | .35  | 1.50 |    |    |    |     |    |    |    |      | .25  | 1.20 |      | 1.00 | 1.50 | .70 |    |    |    |    |        | 7.00 |      |
| Ferguson          |               |     |     |     |     |     |   |     |     |      | .10  | .16  | .98  |    |    |    |     |    |    |    | .55  |      | .65  |      | 1.25 |      |     |    |    |    |    |        | 3.89 |      |
| Florence          |               |     |     |     |     | .20 |   |     |     |      | T.   | .61  | T.   |    |    |    |     |    |    |    |      | .24  |      | .67  | .09  | .14  |     |    |    |    |    |        | 1.75 |      |
| Georgetown        |               |     |     | T.  | .02 |     |   |     |     |      | .02  | .05  | .60  |    |    |    |     |    |    |    | .60  | .80  |      | 1.00 | 1.15 |      |     |    |    |    |    |        | 4.24 |      |
| Greenville        |               |     |     |     |     |     |   |     |     |      | .10  | .20  |      |    |    |    |     |    |    |    | .20  | .98  |      | .95  | 1.80 |      |     |    |    |    |    |        | 4.23 |      |
| Greenwood         |               |     |     |     |     |     |   |     |     |      |      |      |      |    |    |    |     |    |    |    | 1.32 |      | .52  | 1.61 | .72  |      |     |    |    |    |    |        | .01  | 5.20 |
| Heath Spring      |               | .02 |     | .03 | .05 |     |   |     | .17 | .44  | .31  |      |      |    |    |    |     |    |    |    |      | .49  |      | .74  | .73  | 1.70 |     |    |    |    |    |        | 5.14 |      |
| Kingsree (1)      |               |     |     |     |     |     |   |     |     |      | .06  | .90  |      |    |    |    |     |    |    |    | T.   | .54  |      | .75  | T.   | 2.33 |     |    |    |    |    |        | 5.07 |      |
| Kingsree (2)      |               |     |     |     | T.  |     |   |     |     |      | T.   | .90  |      |    |    |    |     |    |    |    | .55  |      | .75  | T.   | 2.33 |      |     |    |    |    |    |        | .15  | 5.80 |
| Liberty           |               | .02 | T.  | .20 |     |     |   |     |     | .02  | T.   | .40  | .36  |    |    |    |     |    |    |    | 1.60 | .25  | 1.00 | 1.80 |      |      |     |    |    |    |    |        | 4.94 |      |
| Little Mountain   |               |     |     |     |     |     |   |     |     |      | .06  |      |      |    |    |    |     |    |    |    | 1.50 | .55  | .05  | 2.00 | .61  |      |     |    |    |    |    |        | 4.28 |      |
| Newberry          |               |     | .10 | T.  |     |     |   |     | .05 |      | .49  |      |      |    |    |    |     |    |    |    | 1.00 | .90  |      | .95  | 1.13 | .23  |     |    |    |    |    |        | .04  | 5.11 |
| Pelzer            |               |     | .02 | .02 | T.  |     |   |     |     |      | .15  | .40  |      |    |    |    |     |    |    |    | 1.00 |      |      | 1.20 | 1.38 |      |     |    |    |    |    |        |      |      |
| Pinopolis         |               |     |     |     |     |     |   |     |     |      |      |      |      |    |    |    |     |    |    |    |      |      |      |      |      |      |     |    |    |    |    |        |      |      |
| St. George        |               |     |     |     |     |     |   |     |     |      | .70  |      |      |    |    |    |     |    |    |    |      | .40  |      | .50  | .70  | 1.80 |     |    |    |    |    |        |      |      |
| St. Matthews      |               |     |     |     |     |     |   |     |     |      | .20  | .40  |      |    |    |    |     |    |    |    |      | .48  |      | .80  | 1.40 | .72  |     |    |    |    |    |        |      | 4.10 |
| Saluda            |               |     |     | T.  | .10 |     |   |     |     |      | .07  | .45  | .14  |    |    |    |     |    |    |    | .10  |      | .48  |      | .80  | 1.40 | .72 |    |    |    |    |        | 4.20 |      |
| Santee            |               |     | T.  |     | .19 |     |   |     |     |      | .07  | .45  | .14  |    |    |    |     |    |    |    | 1.05 |      | .23  | 1.45 | 1.45 |      |     |    |    |    |    |        | 4.84 |      |
| Savannah, Ga.     |               |     |     |     |     |     |   |     |     | .10  |      |      |      |    |    |    |     |    |    |    | 1.45 | .05  | .03  | 1.26 | .73  |      |     |    |    |    |    |        | T.   | 4.49 |
| Smith Mills       |               |     |     |     |     |     |   |     |     |      | .32  | .36  |      |    |    |    |     |    |    |    | .19  |      |      |      |      |      |     |    |    |    |    |        | 2.44 |      |
| Society Hill      |               |     |     |     |     | .04 |   |     |     |      | T.   | .88  | .11  |    |    |    |     |    |    |    | .14  | .24  | 1.87 |      |      |      |     |    |    |    |    |        | 5.25 |      |
| Spartanburg       |               |     |     |     | .25 |     |   | .34 | .10 | 1.04 |      |      |      |    |    |    |     |    |    |    | .18  |      | .10  | 1.10 | .08  | 2.75 | .01 |    |    |    |    |        |      | 5.30 |
| Stateburg         |               |     |     | .18 | T.  |     |   |     |     | .03  | T.   | .67  |      |    |    |    |     |    |    |    | .65  | .66  |      | 1.06 | .95  | .25  |     |    |    |    |    |        | .03  | 4.87 |
| Summerville       |               |     |     | .05 |     |     |   |     |     | .11  | .51  | .13  |      |    |    |    |     |    |    |    | .90  | .70  |      | 1.04 | 1.32 |      |     |    |    |    |    |        | 5.30 |      |
| Trenton           |               |     | T.  | .15 | .14 |     |   |     |     | .07  | .25  | .02  |      |    |    |    |     |    |    |    | .88  | .62  | .03  | .76  | 1.79 |      |     |    |    |    |    |        | 4.87 |      |
| Trial             |               |     |     |     |     |     |   |     |     |      | .40  |      |      |    |    |    |     |    |    |    | T.   | .38  | T.   | .60  | 3.20 | .03  |     |    |    |    |    |        | 4.88 |      |
| Walhalla          |               |     |     | .11 |     |     |   |     |     |      | .40  |      |      |    |    |    |     |    |    |    | .95  | .10  | .03  | 1.23 | 1.71 |      |     |    |    |    |    |        | 4.84 |      |
| Walterboro        |               |     |     |     |     |     |   |     |     |      | 1.10 | .05  |      |    |    |    |     |    |    |    | .36  |      | .72  |      | 2.50 |      |     |    |    |    |    |        | 4.42 |      |
| Wilmington, N. C. |               |     | T.  | .12 |     |     |   |     |     |      |      |      |      |    |    |    |     |    |    |    |      |      |      |      |      |      |     |    |    |    |    |        |      | 4.86 |
| Winnsboro         |               |     |     |     | .03 | T.  |   |     |     |      | .14  |      |      |    |    |    |     |    |    |    |      | .58  |      | .62  | 2.51 |      |     |    |    |    |    |        | 4.02 |      |
| Winthrop College  |               |     |     |     |     |     |   |     |     | .06  | .67  | .44  |      |    |    |    |     |    |    |    | .62  | .02  | .02  | 1.50 | 1.35 |      |     |    |    |    |    |        | 4.02 |      |
| Yemassee          |               |     |     | .10 |     |     |   |     |     |      | .40  |      |      |    |    |    |     |    |    |    | 1.00 |      | .60  | .40  | 2.00 | .75  |     |    |    |    |    |        | 5.25 |      |
| Yorkville         |               |     | .07 | T.  | .08 |     |   |     |     | .12  | .05  | .50  | .36  |    |    |    |     |    |    |    |      | 1.02 | .15  | .03  | .93  | .71  |     |    |    |    |    |        | .03  | 4.07 |
|                   |               |     |     |     |     |     |   |     |     | .08  | .11  | T.   |      |    |    |    |     |    |    |    | .36  |      | .67  | 1.08 | 1.93 |      |     |    |    |    |    |        | 4.30 |      |
|                   |               |     |     | .15 | .05 |     |   |     |     | .30  |      | .63  | .35  |    |    |    |     |    |    |    | 1.24 |      | .15  | 1.02 | .52  |      |     |    |    |    |    |        | T.   | 4.41 |

T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR APRIL, 1908.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

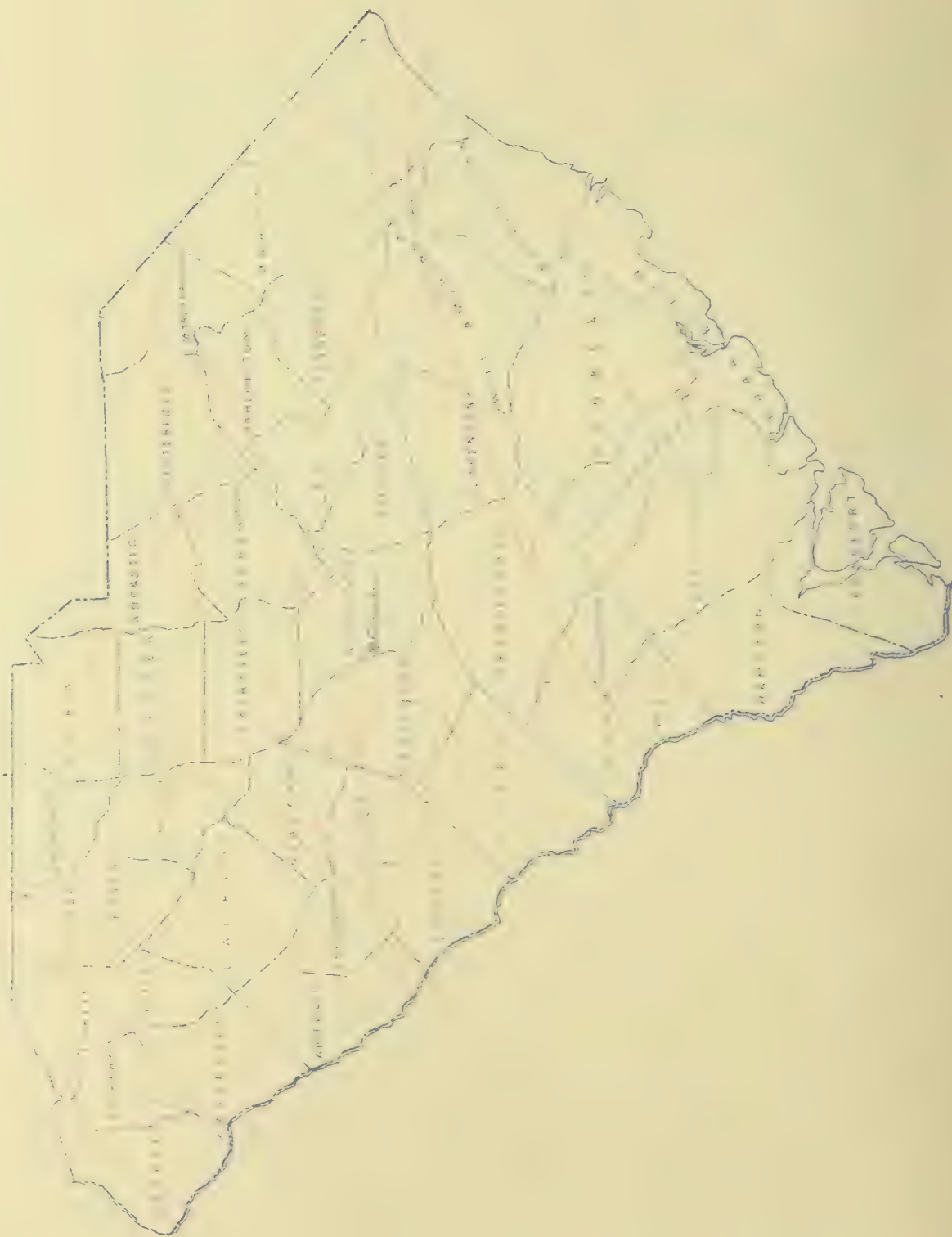
SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

MAY 28, 1908.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL 1888





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. XI. COLUMBIA, S. C., APRIL, 1908.

No. 4.

## GENERAL SUMMARY.

The month was characterized by its unusual warmth, and ample, fairly well distributed precipitation, and by the high winds that prevailed during the latter portion of the third decade. It was, excepting 1896, the warmest April in the last 15 years. The precipitation was exceeded in four out of the last 15 years.

The mean temperature was above the normal thruout the State, tho the departures were greatest in the eastern and central portions. Maximum temperatures of 90°, or above, were recorded in the eastern and central portions only. Freezing temperatures were recorded only in the extreme northwestern portion. The highest temperatures occurred generally on the 9th and 10th; the lowest on the 3d and 4th, except in the extreme southeastern portion where the 17th was the coolest day. Light frosts were general on the 4th in the central and western portions, with killing frosts on that date in the mountain districts.

The precipitation was heavy in the eastern half of the State, exceeding six inches over a large area; it was comparatively light, and somewhat below the normal in the northern counties. Excepting a moderately heavy rainfall on the 6th, the precipitation all occurred after the 13th. There were two general rainy periods, the first occurred on the 14th-17th, and the second and longest period, on the 22d-27th; light, scattered showers, accompanying thunderstorms, fell on the 30th.

## TEMPERATURE.

The mean temperature was 66.6° which is 4.9° above the normal. The highest local mean was 68.9° at Kingstree, the lowest was 62.2° at Greenville. The monthly extremes of temperature were 95° at Walterboro on the 10th and 31° at Liberty on the 4th, making the State range 64°. The greatest local monthly range was 58° at Bennettsville, the least was 38° at Winnsboro. The mean of the daily maximum temperatures was 77.6° and of the daily minimum temperatures was 55.6°, making the average daily range 22.0°.

## PRECIPITATION.

The average precipitation was 4.75 inches which is 1.38 inches above the normal. The greatest local monthly amount was 8.48 inches at Bowman, the least was 1.42

inches at Camden (2). The greatest 24-hour rainfall was 3.15 inches at Calhoun Falls on the 16th-17th. The average number of days with rain was 9, ranging from 5 days at Bennettsville, Camden (2), Cheraw (1), Effingham, and Society Hill, to 13 days at Anderson, Barksdale, Clarks Hill, and Columbia.

**EXCESSIVE PRECIPITATION.**—At Calhoun Falls on the 16th-17th, 3.15 inches in 11 hours; at Clemson College on the 15th, 2.51 inches in 24 hours; at Dillon on the 23d, 2.49 inches in 24 hours; at Effingham on the 22d-23d, 2.50 inches in 16 hours; at Ferguson on the 22d-23d, 2.60 inches in 12 hours; at Heath Springs on the 15th, 2.60 inches in 24 hours; at Kingstree on the 22d-23d, 2.70 inches in 16 hours; at Pinopolis on the 16th, 2.90 inches in 24 hours; at Summerville on the 22d-23d, 3.12 inches in 24 hours; at Walterboro on the 22d-23d, 2.89 inches in about 24 hours.

## WIND.

The prevailing direction of the wind was southwest at 19 stations, west at 10 stations, south at 8 stations, north, northeast and southeast at 2 stations each, and northwest at 1 station.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 11, of partly cloudy days was 10, and of cloudy days was 9.

## MISCELLANEOUS PHENOMENA.

**PARHELION.**—At Santuc on the 7th.

**SOLAR HALOS.**—At Camden on the 9th, 21st; at Santuc on the 14th, 21st.

**LUNAR HALOS.**—At Greenville on the 10th; at Little Mountain on the 9th, 10th; at Santuc on the 10th, 11th; at Winthrop College on the 11th.

**HAIL.**—At Bowman on the 15th; at Pinopolis, Trial on the 26th.

**FROST.**—Killing, at Liberty, Little Mountain on the 4th. Heavy, at Columbia, on the 4th. Light, at Camden, Cheraw, Clarks Hill, Heath Springs, Saluda, Santuc, Trial, Winthrop College, Yorkville, on the 4th; at Newberry on the 4th, 13th, 29th.

**FOG, DENSE.**—At Barksdale on the 6th, 8th; at Blackville on the 6th, 13th; at Bowman, Greenville, Pelzer on the 7th; at Camden on the 6th, 7th, 8th, 14th, 26th; at Charleston on the 14th; at Cheraw on the 7th, 24th; at Columbia on the 7th, 14th; at Liberty on the 7th, 19th; at Newberry on the 6th, 7th, 14th; at Santuc on the 7th, 26th; at Society Hill on the 7th, 8th, 14th; at Trial on the 7th, 8th, 17th; at Winthrop College on the 7th, 22d, 26th; at Yorkville on the 2d, 7th.

**HIGH WINDS.**—At Bowman on the 2d, 3d, 5th, 11th; at Camden on the 5th, 11th, 16th, 25th, 27th, 28th, 30th; at Charleston on the 16th; at Cheraw on the 11th, 28th; at Clarks Hill on the 11th, 30th; at Columbia on the 16th, 26th, 27th, 28th, 30th; at Greenville on the 16th, 26th; at Liberty on the 16th, 30th; at Newberry on the 16th, 27th,



30th; at Trial on the 16th, 26th; at Winthrop College on the 12th, 16th, 17th, 19th, 27th, 28th, 30th; at Yorkville on the 25th, 30th.

**THUNDERSTORMS.**—Thunderstorms occurred on 13 days. There were four periods of maximum frequency, namely, on the 6th, 15th-16th, 25th-27th, and 30th, when from 3 to 14 of the 18 cooperative stations that record thunderstorms reported their occurrence. They were comparatively infrequent on the 5th, 22d, 23d, 24th, 28th, and 29th. None occurred on the 1st-4th, 7th-14th, 17th-21st.

BAROMETER AND WIND TABLE FOR APRIL, 1908.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.01      | 30.31    | 17    | 29.61   | 30    | 5.330           | 7.4             | 34                | ne.        | 16    |
| Charleston        | 30.01      | 30.32    | 5     | 29.60   | 30    | 8.684           | 12.1            | 47                | ne.        | 16    |
| Charlotte, N. C.  | 30.02      | 30.39    | 17    | 29.59   | 30    | 5.910           | 8.2             | 34                | sw.        | 30    |
| Columbia          | 30.00      | 30.32    | 5     | 29.58   | 30    | 5.567           | 7.7             | 37                | sw.        | 30    |
| Savannah, Ga.     | 30.02      | 30.31    | 4     | 29.72   | 30    | 6.335           | 8.8             | 30                | e.         | 16    |
| Wilmington, N. C. | 30.02      | 30.39    | 5     | 29.52   | 30    | 7.088           | 9.8             | 32                | ne.        | 16    |
| Averages          | 30.01      | 30.39    | 5.17  | 29.52   | 30    | 6.486           | 9.0             | 47                | ne.        | 16    |

RIVER GAGE READINGS, APRIL, 1908.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 1.7   | 5.6      | 17    | 0.8     | 14    |
| Calhoun Falls    | 4.5   | 8.2      | 27    | 3.0     | 13    |
| Camden           | 8.6   | 11.3     | 18    | 7.1     | 15    |
| Catawba          | 3.0   | 4.0      | 18    | 2.4     | 15    |
| Chappells        | 6.6   | 10.0     | 28    | 3.9     | 14    |
| Cheraw           | 5.4   | 9.4      | 18    | 4.0     | 16    |
| Columbia         | 2.4   | 3.8      | 28    | 1.5     | 26    |
| Ellingham        | 6.6   | 11.8     | 1     | 4.0     | *15   |
| Ferguson         | 12.3  | 13.7     | 1     | 10.5    | *15   |
| Kingstree        | 4.6   | 7.7      | *29   | 1.7     | 16    |
| Mt. Holly, N. C. | 2.1   | 4.0      | 17    | 1.8     | *10   |
| Pelzer           | 4.0   | 7.9      | 16    | 3.1     | 15    |
| Rhmini           | 11.7  | 14.7     | 1     | 9.2     | 15    |
| Smith Mills      | 12.1  | 16.5     | *2    | 9.0     | 18    |

\* On other dates also.

## ERRATA.

The following corrections should be made in the March, 1908, Monthly Report, namely: At Stateburg, page 21, the mean temperature 62.6°, should be 62.4°; at Trial, page 21, the mean temperature 62.2°, should be 62.3°. On page 22, at Stateburg, mean maximum 74.4°, should be 73.8°; at Trial, the maximum on the 4th 54°, should be 55°, and the mean maximum 74.4°, should be 74.5°.

CLIMATOLOGY OF BATESBURG, S. C.  
Temperature.

| Year. | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1887. |      |      |      |       | 70   |      |      |      |       |      |      |      |       |
| 1888. |      |      |      |       |      |      |      | 81   | 72    | 61   |      |      |       |
| 1889. |      |      |      | 68    | 72   | 77   | 78   | 74   | 71    | 62   | 55   |      |       |
| 1890. |      |      |      |       | 73   | 82   | 80   | 78   | 75    | 64   | 60   |      |       |
| 1891. |      |      |      |       | 70   | 80   | 78   | 79   | 75    | 61   | 52   |      |       |
| 1892. |      |      |      | 63    | 73   | 79   | 78   | 80   | 71    | 64   | 52   |      |       |
| 1893. |      |      |      | 66    | 71   | 77   | 82   | 78   | 75    | 63   | 52   |      |       |
| 1894. |      |      |      |       | 71   | 76   | 77   | 78   | 74    | 63   | 51   |      |       |
| 1895. |      |      |      | 63    | 68   | 79   | 78   | 81   | 77    | 59   |      |      |       |
| 1896. |      | 49   | 53   | 61    | 76   | 77   | 80   | 79   | 75    | 62   | 57   | 48   |       |
| 1897. | 46   | 49   | 57   | 61    | 68   | 80   | 82   | 78   | 73    | 66   | 56   | 49   | 04    |
| 1898. | 49   | 45   | 58   | 58    | 74   | 82   | 82   | 81   | 76    | 63   | 50   | 46   | 04    |
| 1899. | 46   | 42   | 55   | 61    | 75   | 80   | 81   | 81   | 73    | 64   | 54   | 45   | 03    |
| 1900. | 44   | 42   | 51   | 62    | 71   | 77   | 83   | 84   | 78    | 68   | 55   | 45   | 03    |
| 1901. | 44   | 42   | 53   | 55    | 72   | 78   | 83   | 80   | 72    | 62   | 48   | 45   | 02    |
| 1902. | 43   | 43   | 53   | 60    | 74   | 78   | 81   | 77   | 70    | 62   | 58   | 56   | 02    |
| 1903. | 43   | 48   | 60   | 60    | 71   | 74   | 79   | 80   | 71    | 60   | 51   | 12   | 02    |
| 1904. | 40   | 44   | 55   | 57    | 70   | 76   | 79   | 77   | 76    | 65   | 54   | 46   | 02    |
| 1905. | 40   | 38   | 58   | 63    | 74   | 80   | 81   | 78   | 77    | 64   | 54   | 43   | 02    |
| 1906. | 46   | 45   | 50   | 65    | 70   | 78   | 78   | 80   | 77    | 61   | 55   | 48   | 03    |
| 1907. | 52   | 46   | 64   | 56    | 70   | 76   | 81   | 78   | 74    | 60   | 51   | 45   | 03    |
| M's   | 44.8 | 44.4 | 55.6 | 61.2  | 71.6 | 78.2 | 80.0 | 79.0 | 74.1  | 62.8 | 53.8 | 46.4 | 62.6  |

Precipitation.

| Year. | Jan. | Feb.  | Mar.  | April | May  | June  | July  | Aug.  | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|-------|-------|-------|------|-------|-------|-------|-------|------|------|------|-------|
| 1888. |      |       |       |       |      |       |       | 4.65  | 10.44 | 5.18 |      |      |       |
| 1889. |      |       |       | 0.37  | 1.50 | 6.74  | 9.08  | 6.33  | 2.90  | 2.91 | 3.64 |      |       |
| 1890. |      |       |       |       | 4.01 | 4.27  | 9.16  | 4.10  | 4.50  | 4.75 | 0.25 |      |       |
| 1891. |      |       |       |       | 6.31 | 2.64  | 6.53  | 11.05 | 1.61  | 0.60 | 2.35 |      |       |
| 1892. |      |       |       | 0.47  | 2.97 | 7.99  | 8.11  | 5.78  | 6.93  | 0.40 | 2.02 |      |       |
| 1893. |      |       |       | 0.60  | 6.15 | 12.05 | 4.51  |       | 4.08  | 3.94 | 2.65 |      |       |
| 1894. |      |       |       |       | 3.25 | 4.18  | 11.74 | 5.38  | 6.23  | 5.60 | 2.34 |      |       |
| 1895. |      |       |       | 5.33  | 6.18 | 2.35  | 3.85  | 6.54  | 1.06  | 1.30 |      |      |       |
| 1896. |      | 7.70  | 2.40  | 1.50  | 2.96 | 5.30  | 8.63  | 3.85  | 2.20  | 0.85 | 3.00 | 1.10 |       |
| 1897. | 6.15 | 6.13  | 3.85  | 2.07  | 3.50 | 4.51  | 8.16  | 6.54  | 4.20  | 5.05 | 1.10 | 1.40 | 52.96 |
| 1898. | 2.20 | 0.62  | 3.32  | 4.90  | 2.20 | 2.14  | 7.00  | 5.98  | 1.12  | 2.20 | 5.20 | 1.96 | 38.74 |
| 1899. | 5.55 | 11.23 | 6.47  | 2.80  | 1.01 | 3.50  | 2.50  | 5.30  | 4.18  | 6.25 | 2.60 | 4.15 | 55.44 |
| 1900. | 2.05 | 7.05  | 3.58  | 6.00  | 1.71 | 4.44  | 2.29  | 0.84  | 4.71  | 3.71 | 3.90 | 3.64 | 43.92 |
| 1901. | 3.75 | 4.55  | 4.40  | 6.47  | 5.94 | 4.68  | 0.82  | 6.62  | 5.49  | 1.50 | 1.01 | 6.83 | 52.06 |
| 1902. | 2.82 | 7.76  | 6.62  | 2.55  | 0.90 | 6.38  | 2.39  | 8.68  | 2.47  | 7.34 | 4.08 | 5.34 | 57.33 |
| 1903. | 4.78 | 11.10 | 11.14 | 3.31  | 3.27 | 8.63  | 3.06  | 7.80  | 4.22  | 2.66 | 3.17 | 2.73 | 65.91 |
| 1904. | 3.64 | 4.71  | 4.13  | 2.43  | 2.88 | 2.27  | 3.65  | 7.64  | 1.22  | 0.66 | 3.52 | 3.29 | 40.04 |
| 1905. | 2.02 | 4.63  | 2.04  | 5.02  | 2.95 | 0.47  | 4.93  | 4.64  | 0.92  | 2.31 | 1.29 | 6.92 | 38.18 |
| 1906. | 6.90 | 2.58  | 6.78  | 1.90  | 2.61 | 8.76  | 9.49  | 8.56  | 4.86  | 2.79 | 1.05 | 2.51 | 58.79 |
| 1907. | 0.56 | 5.31  | 0.96  | 4.25  | 6.82 | 4.06  | 3.34  | 4.11  | 4.10  | 0.06 | 3.97 | 5.46 | 43.00 |
| M's   | 3.67 | 6.12  | 4.64  | 3.12  | 3.53 | 5.02  | 5.75  | 6.02  | 3.87  | 3.07 | 2.51 | 3.78 | 51.10 |

Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 52                    | 1907  | 40                   | *1905 | 6.90              | 1906  | 0.56           | 1907  |
| February  | 49                    | *1896 | 38                   | 1905  | 11.23             | 1899  | 0.62           | 1898  |
| March     | 64                    | 1907  | 50                   | 1906  | 11.14             | 1903  | 0.96           | 1907  |
| April     | 68                    | 1889  | 56                   | 1907  | 6.47              | 1901  | 0.37           | 1889  |
| May       | 76                    | 1896  | 68                   | 1897  | 6.82              | 1907  | 0.90           | 1902  |
| June      | 82                    | *1890 | 74                   | 1903  | 12.05             | 1893  | 0.47           | 1905  |
| July      | 83                    | *1900 | 77                   | 1891  | 11.74             | 1894  | 0.82           | 1901  |
| August    | 84                    | 1900  | 74                   | 1889  | 11.05             | 1891  | 0.84           | 1900  |
| September | 78                    | 1900  | 70                   | 1902  | 10.44             | 1888  | 0.92           | 1905  |
| October   | 68                    | 1900  | 59                   | 1895  | 7.34              | 1902  | 0.06           | 1907  |
| November  | 60                    | 1890  | 48                   | 1901  | 5.20              | 1898  | 0.25           | 1890  |
| December  | 56                    | 1902  | 42                   | 1903  | 6.92              | 1905  | 1.10           | 1896  |

\* And other years.

COMPARATIVE APRIL DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |                  |                  |          |          | Precipitation. |                   |                |                |                | Number<br>Rainy<br>Days. | Prevailing<br>Wind<br>Direction. |
|-----------|--------------|------------------|------------------|----------|----------|----------------|-------------------|----------------|----------------|----------------|--------------------------|----------------------------------|
|           | Mean.        | Mean<br>Maximum. | Mean<br>Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                | Least Monthly. |                |                          |                                  |
|           |              |                  |                  |          |          |                | Amount.           | Place.         | Amount.        | Place.         |                          |                                  |
| 1894..... | 62.6         | 73.2             | 52.0             | 95       | 30       | 2.01           | 6.05              | Cheraw.        | 0.53           | Charleston.    | 6                        | sw.                              |
| 1895..... | 61.4         | 71.6             | 51.5             | 94       | 28       | 5.55           | 9.80              | Stateburg.     | 3.10           | Shaw's Fork.   | 10                       | sw.                              |
| 1896..... | 66.9         | 78.9             | 55.3             | 98       | 30       | 1.31           | 2.46              | Mt. Carmel.    | 0.19           | Yemassee.      | 4                        | sw.                              |
| 1897..... | 62.2         | 73.5             | 50.8             | 95       | 31       | 3.24           | 8.40              | Walhalla.      | 1.41           | Gillisonville. | 9                        | sw.                              |
| 1898..... | 58.0         | 69.4             | 46.7             | 92       | 26       | 5.05           | 7.61              | Edisto.        | 2.50           | Charleston.    | 8                        | sw.                              |
| 1899..... | 60.0         | 70.9             | 49.2             | 91       | 27       | 3.02           | 5.57              | Smiths Mills.  | 1.32           | Winnabow.      | 7                        | n.                               |
| 1900..... | 62.4         | 73.5             | 51.2             | 90       | 24       | 5.41           | 10.32             | Shaw's Fork.   | 2.35           | Georgetown.    | 9                        | ne.                              |
| 1901..... | 56.0         | 66.5             | 45.4             | 89       | 30       | 5.03           | 10.58             | Yorkville.     | 1.64           | Charleston.    | 7                        | nw.                              |
| 1902..... | 60.4         | 72.0             | 48.8             | 91       | 24       | 2.18           | 3.79              | Santee.        | 0.87           | Walhalla.      | 7                        | w.                               |
| 1903..... | 60.4         | 71.8             | 48.9             | 88       | 26       | 2.95           | 5.55              | Liberty.       | 0.85           | Beaufort.      | 8                        | w.                               |
| 1904..... | 59.2         | 71.7             | 47.3             | 89       | 21       | 1.34           | 2.45              | Liberty.       | 0.17           | Charleston.    | 6                        | sw.                              |
| 1905..... | 62.8         | 74.5             | 51.2             | 92       | 25       | 3.83           | 7.51              | Columbia.      | 2.00           | Barksdale.     | 9                        | sw.                              |
| 1906..... | 65.1         | 78.2             | 52.0             | 93       | 31       | 1.39           | 2.84              | Calhoun Falls. | 0.36           | Darlington.    | 4                        | sw.                              |
| 1907..... | 56.4         | 67.7             | 45.0             | 89       | 20       | 4.40           | 9.07              | Edisto.        | 2.40           | Winnabow.      | 10                       | sw.                              |
| 1908..... | 66.6         | 77.6             | 55.6             | 95       | 31       | 4.75           | 8.48              | Bowman.        | 1.42           | Camden(2).     | 9                        | sw.                              |



## CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1908.

| STATIONS                   | Counties     | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit |                            |          |       |         |       | Precipitation—inches  |        |                            |                       |                         | Sky                |                    |                            |                       |                               | Observers              |
|----------------------------|--------------|-----------------|-------------------------|-----------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|--------|----------------------------|-----------------------|-------------------------|--------------------|--------------------|----------------------------|-----------------------|-------------------------------|------------------------|
|                            |              |                 |                         | Mean.                             | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snow—accumulated. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. | Prevailing direction of wind. |                        |
| Arken                      | Arken        | 505             | 24                      | 67.6                              | +4.6                       | 91       | 10    | 35      | 4     | 32                    | 1.33   | +1.33                      | 1.75                  | 0                       | 7                  | 18                 | 8                          | 4                     | SW.                           | C. F. McGahan, M. D.   |
| Allendale                  | Barnwell     | 186             | 20                      | 68.1                              | +4.5                       | 88       | 9     | 42      | 1     | 34                    | 5.08   | +2.91                      | 1.60                  | 0                       | 6                  | 18                 | 0                          | 12                    | W.                            | A. R. Hiers.           |
| Anderson                   | Anderson     | 794             | 3                       | 64.2                              | +3.0                       | 87       | 10    | 33      | 4     | 39                    | 5.75   | +2.64                      | 1.31                  | 0                       | 13                 | 17                 | 0                          | 13                    | W.                            | H. H. Russell          |
| Angusta, Ga.               | Richmond     | 131             | 47                      | 67.7                              | +4.5                       | 90       | 10    | 38      | 4     | 28                    | 5.11   | +1.91                      | 2.01                  | 0                       | 12                 | 14                 | 11                         | 5                     | SW.                           | Weather Bureau.        |
| Barksdale                  | Laurens      | 680             | 20                      | 65.4                              | .....                      | 80       | 10    | 36      | 4     | 34                    | 4.27   | .....                      | 1.20                  | 0                       | 13                 | 13                 | 13                         | 4                     | NE.                           | J. T. Garrett.         |
| Batesburg                  | Lexington    | 656             | 20                      | 64.8                              | +3.3                       | 82       | 10    | 34      | 4     | 34                    | 2.92   | .....                      | 0.13                  | 0                       | 9                  | 13                 | 5                          | 12                    | N.                            | E. J. Hite             |
| Beaufort                   | Beaufort     | 20              | 22                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | Miss E. G. Rice.       |
| Bennettsville              | Marlboro     | 151             | 7                       | 66.2                              | .....                      | 92       | 11    | 34      | 3     | 32                    | 2.29   | .....                      | 1.31                  | 0                       | 5                  | 15                 | 11                         | 4                     | 8.                            | C. S. McCall           |
| Blackville                 | Barnwell     | 296             | 20                      | 67.6                              | +4.3                       | 93       | 9     | 37      | 3     | 39                    | 5.98   | +2.75                      | 1.78                  | 0                       | 11                 | 9                  | 12                         | 9                     | SW.                           | Miss M. E. Lange.      |
| Blair                      | Fairfield    | 293             | 12                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | T. S. McMeekin.        |
| Bowman                     | Orangeburg   | 160             | 12                      | 66.3                              | .....                      | 92       | 10    | 37      | 4     | 34                    | 8.48   | .....                      | 2.20                  | 0                       | 12                 | 13                 | 7                          | 9                     | W.                            | B. O. Evans.           |
| Calhoun Falls              | Abbeville    | 508             | 15                      | 67.0                              | .....                      | 88       | 10    | 35      | 4     | 39                    | 7.90   | +4.47                      | 3.15                  | 0                       | 9                  | 17                 | 0                          | 13                    | SW.                           | P. J. Pfeiffer.        |
| Camden (1)                 | Kershaw      | 222             | 42                      | 67.0                              | .....                      | 88       | 10    | 35      | 4     | 39                    | 2.19   | .....                      | 1.14                  | 0                       | 9                  | 12                 | 9                          | 9                     | SW.                           | J. B. Mickle.          |
| Camden (2)                 | Kershaw      | 222             | 42                      | 67.0                              | .....                      | 88       | 10    | 35      | 4     | 39                    | 2.19   | .....                      | 1.14                  | 0                       | 9                  | 12                 | 9                          | 9                     | SW.                           | W. C. Brown.           |
| Catawba                    | York         | 402             | 3                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | Jas. C. Faris.         |
| Chappells                  | Newberry     | 402             | 3                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | W. R. Zimmerman.       |
| Charleston                 | Charleston   | 48              | 39                      | 68.8                              | +5.0                       | 90       | 11    | 45      | 17    | 26                    | 4.92   | +1.93                      | 1.36                  | 0                       | 11                 | 6                  | 15                         | 9                     | SW.                           | Weather Bureau.        |
| Charlotte, N. C.           | Mecklenburg  | 808             | 30                      | 63.4                              | +4.2                       | 84       | 10    | 38      | 4     | 31                    | 1.29   | -2.15                      | 0.51                  | 0                       | 9                  | 8                  | 10                         | 12                    | SW.                           | Weather Bureau.        |
| Cheraw (1)                 | Cheraw       | 144             | 20                      | 65.4                              | +4.7                       | 89       | 11    | 35      | 4     | 40                    | 1.64   | -1.45                      | 0.64                  | 0                       | 5                  | 9                  | 9                          | 12                    | 8.                            | W. R. Godfrey.         |
| Cheraw (2)                 | Cheraw       | 144             | 15                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | Jno. H. Powe.          |
| Chicks Hill                | Edgefield    | 500             | 6                       | 66.3                              | .....                      | 88       | 10    | 35      | 4     | 34                    | 6.49   | .....                      | 1.72                  | 0                       | 13                 | 8                  | 4                          | 17                    | .....                         | Wm. S. Middleton.      |
| Clemson College            | Oconee       | 850             | 17                      | 64.0                              | +5.1                       | 84       | 10    | 33      | 4     | 33                    | 6.17   | +2.81                      | 2.51                  | 0                       | 8                  | 13                 | 11                         | 6                     | 8.                            | Jno. N. Hook.          |
| Columbia                   | Richland     | 351             | 21                      | 66.7                              | +3.9                       | 90       | 10    | 36      | 4     | 33                    | 3.24   | +0.38                      | 0.98                  | 0                       | 13                 | 6                  | 14                         | 10                    | 8.                            | Central Office.        |
| Conway                     | Horry        | 25              | 16                      | 67.4                              | .....                      | 91       | 11    | 36      | 4     | 30                    | 4.63   | +1.91                      | 1.82                  | 0                       | 8                  | 12                 | 6                          | 12                    | 8.                            | P. C. Quattlebaum.     |
| Darlington                 | Darlington   | 175             | 13                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | D. C. McCall.          |
| Dillon                     | Marion       | 100             | 4                       | 67.2                              | .....                      | 91       | 11    | 32      | 4     | 33                    | 4.90   | +1.32                      | 2.49                  | 0                       | 6                  | .....              | .....                      | .....                 | .....                         | A. E. Rowell.          |
| Due West                   | Abbeville    | 730             | 7                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | Rev. O. Y. Bonner.     |
| Effingham                  | Florence     | 106             | 10                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | H. B. McCall.          |
| Ferguson                   | Florence     | 136             | 1                       | 67.0                              | +5.9                       | 91       | 10    | 35      | 4     | 41                    | 6.12   | +3.16                      | 2.60                  | 0                       | 5                  | 12                 | 0                          | 18                    | SW.                           | John T. Bowers.        |
| Florence                   | Florence     | 136             | 20                      | 67.0                              | +5.9                       | 91       | 10    | 35      | 4     | 41                    | 6.12   | +3.16                      | 2.60                  | 0                       | 5                  | 12                 | 0                          | 18                    | SW.                           | H. K. Gilbert.         |
| Georgetown                 | Georgetown   | 12              | 15                      | 69.0                              | +6.0                       | 90       | 11    | 43      | 3     | 34                    | 4.37   | +1.20                      | 1.00                  | 0                       | 10                 | 14                 | 14                         | 2                     | NE.                           | Wm. Alden James.       |
| Greenville                 | Greenville   | 989             | 10                      | 62.2                              | +5.6                       | 85       | 10    | 35      | 4     | 37                    | 3.77   | -0.05                      | 1.08                  | 0                       | 12                 | 16                 | 3                          | 11                    | SW.                           | Mrs. S. A. Crittenden. |
| Greenwood                  | Greenwood    | 671             | 20                      | 65.1                              | +4.9                       | 87       | 10    | 34      | 4     | 34                    | 3.65   | +0.41                      | 1.70                  | 0                       | 7                  | 15                 | 1                          | 14                    | W.                            | M. M. Calhoun.         |
| Heath Spring               | Lancaster    | 568             | 7                       | 67.8                              | .....                      | 88       | 11    | 42      | 17    | 26                    | 4.06   | .....                      | 2.60                  | 0                       | 8                  | 11                 | 15                         | 4                     | W.                            | J. A. Weaver.          |
| Kingstree (1)              | Williamsburg | 54              | 20                      | 68.9                              | +7.0                       | 89       | 11    | 42      | 4     | 25                    | 6.02   | +3.54                      | 2.70                  | 0                       | 7                  | 21                 | 3                          | 6                     | .....                         | J. A. Scott.           |
| Kingstree (2)              | Williamsburg | 54              | 14                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | A. O. Matthews.        |
| Liberty                    | Pickens      | 900             | 14                      | 64.4                              | +4.5                       | 86       | 10    | 31      | 4     | 42                    | 5.25   | +1.42                      | 2.05                  | 0                       | 11                 | 12                 | 11                         | 7                     | SW.                           | Jno. T. Boggs.         |
| Little Mountain            | Newberry     | 630             | 15                      | 66.6                              | +5.0                       | 86       | 10    | 36      | 4     | 27                    | 3.68   | .....                      | 1.66                  | 0                       | 9                  | 14                 | 6                          | 7                     | W.                            | John M. Sease, M. D.   |
| Newberry                   | Newberry     | 502             | 4                       | 66.9                              | +6.2                       | 91       | 11    | 34      | 4     | 39                    | 3.39   | -0.24                      | 0.95                  | T.                      | 9                  | 8                  | 6                          | 16                    | SW.                           | W. G. Peterson.        |
| Pelzer                     | Anderson     | 873             | 3                       | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | John M. Ward.          |
| Pinopolis                  | Berkley      | 51              | 15                      | 68.0                              | +6.5                       | 86       | 11    | 44      | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | E. P. Ravenel.         |
| St. George                 | Dorchester   | 109             | 20                      | 69.9                              | +7.0                       | 88       | 24    | 46      | 4     | 29                    | 7.02   | +4.43                      | 2.00                  | 0                       | 9                  | 17                 | 0                          | 13                    | .....                         | G. T. Lewis.           |
| St. Matthews               | Orangeburg   | 269             | 20                      | 66.8                              | +4.1                       | 87       | 12    | 35      | 3     | 39                    | 7.24   | +3.88                      | 2.00                  | 0                       | 9                  | 24                 | 0                          | 6                     | .....                         | J. S. Warnamaker.      |
| Saluda                     | Saunder      | 536             | 6                       | 66.5                              | .....                      | 89       | 10    | 32      | 4     | 37                    | 3.87   | .....                      | 1.15                  | 0                       | 11                 | 18                 | 8                          | 1                     | SW.                           | Alvin Etheridge.       |
| Santee                     | Union        | 512             | 14                      | 64.4                              | +5.0                       | 89       | 10    | 34      | 4     | 40                    | 2.88   | -0.70                      | 1.01                  | 0                       | 10                 | 6                  | 15                         | 9                     | W.                            | E. W. Jeter.           |
| Savannah, Ga.              | Chatham      | 71              | 39                      | 70.6                              | +0.7                       | 91       | 10    | 46      | 17    | 25                    | 3.36   | +0.37                      | 0.97                  | 0                       | 8                  | 8                  | 12                         | 10                    | W.                            | Weather Bureau.        |
| Smith Mills                | Williamsburg | 62              | 13                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | W. G. Walker.          |
| Society Hill               | Darlington   | 192             | 17                      | 65.7                              | +4.2                       | 88       | 11    | 38      | 3     | 37                    | 3.33   | -0.36                      | 1.97                  | 0                       | 5                  | 12                 | 7                          | 11                    | SW.                           | J. P. Lucas.           |
| Spartanburg                | Spartanburg  | 875             | 17                      | 64.9                              | +5.2                       | 89       | 10    | 32      | 4     | 42                    | 2.65   | -0.78                      | 0.70                  | 0                       | 10                 | 7                  | 3                          | 20                    | .....                         | F. P. Robinson.        |
| Stateburg                  | Sumter       | 500             | 31                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | W. W. Anderson, M. D.  |
| Summerville                | Dorchester   | 75              | 11                      | 69.0                              | +7.3                       | 91       | *9    | 40      | 4     | 32                    | 6.54   | +3.12                      | 2.74                  | 0                       | 9                  | 11                 | 10                         | 9                     | SW.                           | Miss E. H. Gadsden.    |
| Trenton                    | Edgefield    | 620             | 15                      | 67.0                              | +3.8                       | 87       | *10   | 38      | 4     | 31                    | 4.77   | +1.32                      | 1.25                  | 0                       | 10                 | 3                  | 23                         | 4                     | S.                            | C. A. Long.            |
| Trial                      | Berkley      | 671             | 22                      | 67.2                              | +5.9                       | 88       | *9    | 37      | 4     | 32                    | 7.15   | +4.69                      | 2.24                  | 0                       | 10                 | 4                  | 16                         | 10                    | W.                            | Etsell Gaillard.       |
| Walthalla                  | Oconee       | 1061            | 17                      | .....                             | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                   | .....              | .....              | .....                      | .....                 | .....                         | Miss Jessie Douthit.   |
| Walterboro                 | Colleton     | 69              | 5                       | 69.6                              | .....                      | 95       | 10    | 42      | 4     | 31                    | 6.47   | .....                      | 2.89                  | 0                       | 11                 | 8                  | 12                         | 10                    | .....                         | J. A. Westerberg.      |
| Wilmington, N. C.          | New Hanover  | 52              | 39                      | 65.4                              | +5.0                       | 88       | 11    | 39      | 4     | 30                    | 2.08   | -0.78                      | 0.92                  | 0                       | 8                  | 8                  | 15                         | 7                     | SW.                           | Weather Bureau.        |
| Winnboro                   | Fairfield    | 545             | 19                      | 62.5                              | +1.6                       | 80       | *9    | 42      | 18    | 28                    | 3.54   | +0.55                      | 0.73                  | 0                       | 9                  | 17                 | 12                         | 1                     | NE.                           | John W. Seigler.       |
| Winthrop College           | York         | 690             | 9                       | 66.0                              | .....                      | 87       | 10    | 35      | 4     | 36                    | 1.94   | .....                      | 0.66                  | 0                       | 9                  | 13                 | 9                          | 8                     | SW.                           | E. R. Rivers.          |
| Yemassee                   | Beaufort     | 23              | 13                      | 68.4                              | +5.3                       | 89       | 10    | 41      | 4     | 28                    | 5.70   | +3.20                      | 2.34                  | 0                       | 9                  | 17                 | 0                          | 13                    | .....                         | J. G. Hutson.          |
| Yorkville                  | York         | 680             | 20                      | 66.5                              | +5.1                       | 89       | 11    | 36      | 4     | 37                    | 2.42   | -0.45                      | 1.00                  | 0                       | 8                  | 7                  | 10                         | 13                    | SW.                           | J. R. Schorb.          |
| Means, extremes, and dates |              |                 |                         | 66.6                              | +4.9                       | 95       | 10    | 31      | 4     | 42                    | 4.75   | +1.38                      | 3.15                  | T.                      | 9                  | 11                 | 10                         | 9                     | SW.                           |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. \* Maximum thermometer not standard. † Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a indicates 1 day missing, b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING APRIL, 1908.

| STATIONS. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Monthly<br>mean. |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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| 85        | 68 | 83 | 74 | 59 | 76 | 35 | 78 | 37 | 75 | 60 | 78 | 56 | 83 | 64 | 88 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61               | 49   | 62   | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56 | 79 | 61 | 77 | 63 | 80 | 58 | 61 | 49 | 62 | 41 | 77 | 50 | 80 | 57 | 83 | 58 | 84 | 59 | 87 | 63 | 91 | 62 | 89 | 65 | 78 | 59 | 83 | 56</ |

<sup>r</sup> At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.

† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



TOTAL PRECIPITATION FOR APRIL 1908



## DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1908.

| STATIONS.         | Day of Month. |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      |      |      |     |     |    |    |    |    |    |     |     |      |    |    |    | Total. |      |
|-------------------|---------------|----|---|---|------|------|-----|-----|----|----|----|----|----|-----|------|------|------|------|-----|-----|----|----|----|----|----|-----|-----|------|----|----|----|--------|------|
|                   | 1             | 2  | 3 | 4 | 5    | 6    | 7   | 8   | 9  | 10 | 11 | 12 | 13 | 14  | 15   | 16   | 17   | 18   | 19  | 20  | 21 | 22 | 23 | 24 | 25 | 26  | 27  | 28   | 29 | 30 | 31 |        |      |
| Aiken             |               |    |   |   |      | .78  |     |     |    |    |    |    |    |     | .85  | .05  | .50  |      |     |     |    |    |    |    |    | .20 | .20 | 1.75 |    |    |    |        | 4.33 |
| Allendale         |               |    |   |   |      |      | .68 | .18 |    |    |    |    |    |     |      |      | 1.60 |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 5.08 |
| Anderson          |               |    |   |   | .41  | .06  | .02 |     |    |    |    |    |    |     | .03  | 1.10 | 1.31 | .28  | .20 |     |    |    |    |    |    |     |     |      |    |    |    |        | 5.75 |
| Augusta, Ga.      |               |    |   |   | .27  | .49  |     |     |    |    |    |    |    |     | .18  | 1.03 | .26  | .12  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 5.41 |
| Barksdale         |               |    |   |   | .20  | .10  |     |     | T. |    |    |    |    |     | .20  | .30  | .20  | .10  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 4.27 |
| Batesburg         |               |    |   |   |      | .37  |     |     |    |    |    |    |    |     |      | .53  | .07  | .24  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.92 |
| Beaufort          |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      |      |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        |      |
| Bennettsville     |               |    |   |   |      |      |     |     | T. |    |    |    |    |     | T.   | 1.31 | T.   |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.29 |
| Blackville        |               |    |   |   | .75  | .06  |     |     |    |    |    |    |    | .27 | .04  | 1.05 | .90  | .04  | T.  |     |    |    |    |    |    |     |     |      |    |    |    |        | 5.98 |
| Blairs            |               |    |   |   | .20  | .20  |     |     |    |    |    |    |    |     |      |      | .50  | .44  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.36 |
| Bowman            |               |    |   |   |      | .06  |     |     |    |    |    |    |    | .12 | .10  | 2.20 | .87  | .18  | T.  |     |    |    |    |    |    |     |     |      |    |    |    |        | 8.48 |
| Calhoun Falls     |               |    |   |   |      | .56  |     |     |    |    |    |    |    |     |      | .52  | .85  | 3.15 |     | .47 |    |    |    |    |    |     |     |      |    |    |    |        | 7.90 |
| Camden (1)        |               |    |   |   | .05  | .13  |     |     |    |    |    |    |    |     |      | 1.14 | .07  |      | .09 |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.19 |
| Camden (2)        |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      | .36  | .16  | .46 | .08 |    |    |    |    |    |     |     |      |    |    |    |        | 1.42 |
| Catawba           |               |    |   |   |      | .18  | T.  |     |    |    |    |    |    |     |      | .08  | .24  |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 1.58 |
| Chapin            |               |    |   |   |      | .30  |     |     |    |    |    |    |    |     |      |      | .50  | .44  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.94 |
| Charleston        |               |    |   |   |      | 1.36 |     |     |    |    |    |    |    |     |      |      | .10  | .48  | .24 | .01 |    |    |    |    |    |     |     |      |    |    |    |        | 4.92 |
| Charlotte, N. C.  | T.            | T. |   |   | .11  | T.   | T.  |     | T. |    |    |    |    |     | T.   | .37  | .02  | T.   | .06 |     | T. |    |    |    |    |     |     |      |    |    |    |        | 1.29 |
| Cheraw (1)        | T.            |    |   |   |      | T.   |     |     |    |    |    |    |    |     |      |      | .64  |      |     | .01 |    |    |    |    |    |     |     |      |    |    |    |        | 1.04 |
| Cheraw (2)        | T.            |    |   |   |      |      |     |     |    |    |    |    |    |     |      | .01  | .59  | T.   |     | .01 |    |    |    |    |    |     |     |      |    |    |    |        | 1.08 |
| Clark's Hill      |               |    |   |   | .48  | .35  |     |     |    |    |    |    |    |     | .12  | 1.01 | .04  | .56  | .04 |     |    |    |    |    |    |     |     |      |    |    |    |        | 6.49 |
| Clemson College   |               |    |   |   | .69  |      |     |     |    |    |    |    |    |     |      | 2.51 | .62  |      | .32 |     |    |    |    |    |    |     |     |      |    |    |    |        | 6.17 |
| Columbia          |               |    |   |   | .57  | .04  |     |     |    |    |    |    |    |     | .04  | .77  | .15  | .12  | .04 |     |    |    |    |    |    |     |     |      |    |    |    |        | 3.24 |
| Conway            |               |    |   |   |      | .45  |     |     |    |    |    |    |    |     |      |      | .86  | .43  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 4.63 |
| Darlington        |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      |      |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        |      |
| Dillon            |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      | .60  | .03  |      | .02 |     |    |    |    |    |    |     |     |      |    |    |    |        | 4.90 |
| Due West          |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      |      |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        |      |
| Effingham         |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      | .75  |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 6.52 |
| Ferguson          |               |    |   |   |      | .24  | .30 |     |    |    |    |    |    |     |      |      | 1.41 | 1.70 |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 7.99 |
| Florence          |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      | .80  | .32  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 6.12 |
| Georgetown        |               |    |   |   | 1.00 | .12  |     |     |    |    |    |    |    |     | .01  | .70  | .81  |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 4.37 |
| Greenville        |               |    |   |   |      | .35  | .10 | .02 |    |    |    |    |    |     |      | .41  | .85  | .18  | .04 | .10 |    |    |    |    |    |     |     |      |    |    |    |        | 3.77 |
| Greenwood         |               |    |   |   |      | .40  |     |     |    |    |    |    |    |     |      | .15  | .40  |      |     | .10 |    |    |    |    |    |     |     |      |    |    |    |        | 3.65 |
| Henth Spring      |               |    |   |   | .20  | T.   |     |     |    |    |    |    |    |     | T.   | 2.60 | .10  |      | .07 |     |    |    |    |    |    |     |     |      |    |    |    |        | 4.06 |
| Kingstree (1)     |               |    |   |   |      | .07  |     |     |    |    |    |    |    |     |      |      | .80  | .83  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 6.02 |
| Kingstree (2)     |               |    |   |   |      | .23  | T.  |     |    |    |    |    |    |     |      |      | .73  | .80  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 6.06 |
| Liberty           |               |    |   |   | .50  | .15  |     |     |    |    |    |    |    |     | .20  | 2.05 | .10  | T.   | .25 |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.0  |
| Little Mountain   |               |    |   |   | .15  | .06  |     |     |    |    |    |    |    |     |      |      | .35  | .02  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 3.68 |
| Newberry          |               |    |   |   | .23  |      |     |     |    |    |    |    |    |     | .17  | .95  | T.   | T.   | .10 |     |    |    |    |    |    |     |     |      |    |    |    |        | 3.39 |
| Pelzer            |               |    |   |   |      | .50  | .04 |     |    |    |    |    |    |     |      | .25  | 1.32 | .40  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 5.03 |
| Pinopolis         |               |    |   |   | 1.40 |      |     |     |    |    |    |    |    |     |      | .80  | 2.90 |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 7.58 |
| St. George        |               |    |   |   | 1.00 |      |     |     |    |    |    |    |    |     | .45  | .01  | 1.00 | .88  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 7.02 |
| St. Matthews      |               |    |   |   |      |      | .58 |     |    |    |    |    |    |     |      |      | 1.80 | 1.06 | .10 |     |    |    |    |    |    |     |     |      |    |    |    |        | 7.24 |
| Saluda            |               |    |   |   | .07  | .80  |     |     |    |    |    |    |    |     | .06  |      | T.   | .21  | .08 |     |    |    |    |    |    |     |     |      |    |    |    |        | 3.87 |
| Santee            |               | T. |   |   | .15  | .03  |     |     |    | T. |    |    |    |     |      | .33  | .08  | .01  | .14 |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.88 |
| Savannah, Ga.     |               |    |   |   |      | .45  |     |     |    |    |    |    |    |     |      | .25  | .78  | .20  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 3.36 |
| Smith Mills       |               |    |   |   |      | .15  |     |     |    |    |    |    |    |     |      |      | .04  | .98  | .18 | T.  |    |    |    |    |    |     |     |      |    |    |    |        | 4.55 |
| Society Hill      |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      | 1.97 | .54  |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 3.33 |
| Spartanburg       |               |    |   |   |      | .26  |     |     |    |    |    |    |    |     |      | .42  | .55  | .10  |     | .13 |    |    |    |    |    |     |     |      |    |    |    |        | 2.65 |
| Stateburg         |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      |      |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        |      |
| Summerville       |               |    |   |   | 1.17 |      |     |     |    |    |    |    |    | .21 | .02  | T.   | .20  | 1.00 | T.  |     |    |    |    |    |    |     |     |      |    |    |    |        | 6.54 |
| Trenton           |               |    |   |   | .35  | .23  |     |     |    |    |    |    |    |     | .19  | .94  |      |      | .15 |     |    |    |    |    |    |     |     |      |    |    |    |        | 4.77 |
| Trial             |               |    |   |   |      | .70  |     |     |    |    |    |    |    | .01 | T.   | 1.24 |      | 1.58 | T.  |     |    |    |    |    |    |     |     |      |    |    |    |        | 7.15 |
| Walhalla          |               |    |   |   |      |      |     |     |    |    |    |    |    |     |      |      |      |      |     |     |    |    |    |    |    |     |     |      |    |    |    |        |      |
| Walterboro        |               |    |   |   |      | .39  | .01 |     |    |    |    |    |    |     |      | .03  | 1.70 | .92  | T.  |     |    |    |    |    |    |     |     |      |    |    |    |        | 6.47 |
| Wilmington, N. C. |               |    |   |   |      | .18  |     |     |    | T. |    |    |    |     |      | .39  | .22  |      | T.  |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.08 |
| Winnboro          |               |    |   |   | .20  |      |     |     |    |    |    |    |    |     |      | .51  | .35  | .25  | .28 | .42 |    |    |    |    |    |     |     |      |    |    |    |        | 3.54 |
| Winthrop College  |               |    |   |   | .12  | .05  | .02 |     | T. | T. |    |    |    |     |      | .66  | T.   |      | .13 |     |    |    |    |    |    |     |     |      |    |    |    |        | 1.94 |
| Yemassee          |               |    |   |   | .41  | 1.05 |     |     |    |    |    |    |    |     |      | T.   | .33  | 1.13 | .04 |     |    |    |    |    |    |     |     |      |    |    |    |        | 5.70 |
| Yorkville         |               | T. |   |   | .15  | .03  |     |     | T. |    |    |    |    |     | 1.00 | .16  |      | .15  |     |     |    |    |    |    |    |     |     |      |    |    |    |        | 2.42 |

T. indicates trace, less than .01 inch.



871.05  
DANG

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MAY, 1908.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



RALEIGH, N. C.  
WEATHER BUREAU OFFICE

JUNE 25, 1908.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

VOL. XI.

COLUMBIA, S. C., MAY, 1908.

No. 5.

## GENERAL SUMMARY.

The first decade was cooler, the remainder of the month warmer than usual. There were no marked temperature extremes. The precipitation tho generally ample, was not well distributed. The sunshine was abundant. The mean temperature was nearly the same as in 1901, and the average precipitation was practically the same as in 1906.

The mean temperature was about  $7^{\circ}$  higher in the extreme southern than in the northwestern portion, tho the decrease in temperature was not regular from the coast to the mountains, being small over the eastern half of the State. High maximum temperatures prevailed over the whole State on the 15th, and from the 21st to the 31st. Temperatures as low as  $36^{\circ}$  occurred on the 1st in the western counties. Light frosts were common on that date in all except the immediate coast sections.

Slight deficiencies in precipitation occurred over moderately large areas in the Savannah valley, and smaller ones in the northeastern and central counties, tho the amounts were generally over an inch. A large area in the eastern division, extending to the southern coast, received heavy rains, ranging from four to seven inches. Except a general and moderately heavy rainfall on the 6th-7th, the precipitation all occurred after the 15th, with frequent thunderstorms during the third decade. The most general rain fell on the 19th, and the heaviest local amounts on the 29th and 30th.

## TEMPERATURE.

The mean temperature was  $71.8^{\circ}$  which is  $0.9^{\circ}$  above the normal. The highest local mean was  $75.8^{\circ}$  at Beaufort, the lowest was  $68.4^{\circ}$  at Greenville. The monthly extremes of temperature were  $96^{\circ}$  at Blackville on the 21st, Clarks Hill, Florence on the 22d, Anderson, Spartanburg on the 28th, Greenwood, Newberry, Trenton on the 29th, and  $36^{\circ}$  at Barksdale, Clarks Hill, Greenville, Newberry on the 1st, making the State range  $60^{\circ}$ . The greatest local monthly range was  $60^{\circ}$  at Clarks Hill and Newberry, the least was  $40^{\circ}$  at Beaufort. The mean of the daily maximum temperatures was  $83.9^{\circ}$ , and of the daily minimum temperatures was  $59.8^{\circ}$ , making the average daily range  $24.1^{\circ}$ .

## PRECIPITATION.

The average precipitation was 2.92 inches which is 0.37 of an inch below the normal. The greatest local monthly amount was 7.06 inches at Beaufort, the least was 0.70 of an inch at Greenwood. The greatest 24-hour rainfall was 2.45 inches at Beaufort on the 30th. The average number of days with rain was 7, ranging from 3 days at Chappels, Clemson College, and Greenwood to 11 days at Beaufort, Ferguson, and St. George.

EXCESSIVE PRECIPITATION.—At Blairs on the 19th, 2.00 inches in 30 minutes; at Kingstree on the 30th, 1.43 inches in one hour.

## WIND.

The prevailing direction of the wind was southwest at 23 stations, west at 11 stations, south at 5 stations, northwest at 3 stations, and north and northeast at 1 station each.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 16, of partly cloudy days was 11, and of cloudy days was 4.

## MISCELLANEOUS PHENOMENA.

SOLAR HALOS.—At Camden on the 12th, 14th.

FOGS, DENSE.—At Camden on the 17th, 18th, 30th; at Liberty on the 7th, 20th; at Trial on the 14th.

LIGHT FROST.—At Anderson, Barksdale, Batesburg, Blairs, Camden, Catawba, Cheraw, Clarks Hill, Columbia, Effingham, Heath Springs, Liberty, Newberry, Saluda, Summerville, Winthrop College on the 1st.

LUNAR HALOS.—At Beaufort on the 11th, 12th, 13th, 14th; at Blackville on the 3d; at Camden on the 14th; at Columbia on the 11th, 14th; at Liberty on the 11th, 12th, 27th, 28th, 29th; at Winthrop College on the 13th, 14th, 15th, 16th.

HAIL.—At Beaufort on the 5th, 29th, 30th; at Bowman, Trial on the 22d; at Charleston, Georgetown on the 21st; at Ferguson on the 23d; at Liberty on the 23d, 29th; at Pinopolis on the 5th, 16th; at Society Hill on the 20th, 22d.

THUNDERSTORMS.—Thunderstorms occurred on 17 days. There were four periods of maximum frequency, namely, on the 5th-7th, 16th-19th, 21st-25th, and 29th-30th, when from 3 to 11 of the 18 stations that record thunderstorms reported their occurrence. They were comparatively infrequent on the 20th and the 31st. None occurred on the 1st-4th, 8th-15th, 26th, and 28th.

HIGH WINDS.—At Beaufort on the 5th; at Bowman on the 8th, 9th, 10th, 31st; at Camden on the 7th, 8th; at Charleston on the 19th; at Cheraw on the 8th, 10th; at Columbia on the 2d, 18th, 23d; at Effingham on the 21st; at Georgetown on the 24th; at Heath Springs on the 8th, 9th, 10th; at Liberty on the 2d, 3d, 20th; at Newberry on the 2d, 7th, 10th; at Santuc on the 23d; at Trial on the 22d; at Winthrop College on the 2d, 3d, 7th.



BAROMETER AND WIND TABLE FOR MAY, 1908.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
|                   |            |          |       |         |       |                 |                 |                   |            |       |
| Augusta, Ga.      | 29.98      | 30.22    | 23    | 29.68   | 7     | 4.668           | 6.3             | 30                | nw.        | 17    |
| Charleston.       | 29.99      | 30.24    | 23    | 29.66   | 7     | 7.472           | 10.0            | 26                | nw.        | 19    |
| Charlotte, N. C.  | 29.98      | 30.24    | 23    | 29.63   | 7     | 4.999           | 6.7             | 29                | sw.        | 2     |
| Columbia.         | 29.97      | 30.25    | 23    | 29.63   | 7     | 5.249           | 7.1             | 32                | sw.        | 23    |
| Savannah, Ga.     | 30.00      | 30.24    | 13    | 29.70   | 7     | 5.449           | 7.5             | 34                | n.         | 29    |
| Wilmington, N. C. | 29.98      | 30.28    | 23    | 29.63   | 7     | 6.237           | 8.4             | 27                | sw.        | 7     |
| Averages.         | 29.98      | 30.28    | 23    | 29.63   | 7     | 5.679           | 7.7             | 34                | n.         | 23    |

RIVER GAGE READINGS, MAY, 1908.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 1.7   | 4.6      | 19    | 0.3     | 29    |
| Calhoun Falls.   | 3.8   | 4.9      | 8     | 3.2     | 28    |
| Camden           | 7.8   | 11.9     | 22    | 6.2     | 17    |
| Catawba          | 3.2   | 4.4      | 21    | 2.4     | 7     |
| Chappells        | 3.5   | 7.0      | 1     | 2.4     | 11    |
| Cheraw           | 4.2   | 8.0      | 21    | 2.3     | 19    |
| Columbia         | 1.7   | 2.4      | 20    | 1.0     | 17    |
| Edgingham        | 5.1   | 8.6      | 1     | 4.0     | *17   |
| Ferguson         | 10.3  | 12.6     | *1    | 8.0     | 19    |
| Kingstree        | 5.2   | 7.7      | 4     | 3.0     | 24    |
| Mt. Holly, N. C. | 1.9   | 1.8      | *5    | 2.2     | 19    |
| Pelzer           | 3.1   | 3.6      | *1    | 2.8     | 15    |
| Rimini           | 9.4   | 12.3     | 1     | 7.3     | 18    |
| Smith Mills      | 8.4   | 11.9     | *2    | 4.8     | 20    |

\* On other dates also.

## ERRATA.

The following corrections should be made in April, 1908, number of the Monthly Reports, namely: On page 29, at Clemson College, the lowest and date 33° on the 4th, should be 32° on the 4th; in the monthly mean temperatures, at Aiken 67.6°, should be 67.7°; at Camden, 67.0°, should be 67.2°; at Dillon 67.2°, should be 67.1°. On page 30, at Aiken, the maximum on the 12th 78°, should be 80°; and mean maximum 79.2°, should be 79.3°; at Camden, maximum on the 12th, 76°, should be 86°, and mean maximum 78.1°, should be 78.4°; at Dillon, minimum on the 5th 58°, should be 50°, and on the 6th 61°, should be 59°, and the mean minimum 54.7°, should be 54.4°.

CLIMATOLOGY OF GREENVILLE, S. C.

## Temperature.

| Year  | Jan. | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|-------|------|------|------|------|-------|------|------|------|-------|
| 1891. |      |      |      |       |      |      |      |      |       | 59   | 49   |      |       |
| 1892. |      |      |      |       | 65   | 72   | 74   | 75   | 67    | 60   | 49   |      |       |
| 1893. |      |      |      | 58    | 64   | 71   | 78   | 75   | 71    | 61   | 49   |      |       |
| 1894. |      |      |      |       | 69   | 75   | 75   | 75   | 73    | 64   | 51   |      |       |
| 1895. |      | 35   | 49   | 58    | 67   | 75   | 76   | 77   | 74    | 58   | 53   | 43   |       |
| 1896. | 43   | 46   | 49   | 64    | 72   | 73   | 76   | 78   | 71    | 59   | 56   | 40   | 61    |
| 1897. | 37   | 45   | 50   | 58    | 72   | 75   | 77   | 75   | 72    | 64   | 50   | 44   | 60    |
| 1898. | 44   | 40   | 54   | 53    | 69   | 76   | 77   | 77   | 72    | 60   | 46   | 41   | 59    |
| 1899. | 40   | 38   | 49   | 56    | 69   | 76   | 77   | 79   | 60    | 60   | 51   | 40   | 59    |
| 1900. | 39   | 37   | 47   | 58    | 66   | 72   | 78   | 83   | 74    | 64   | 51   | 42   | 59    |
| 1901. | 41   | 39   | 48   | 52    | 67   | 72   | 78   | 74   | 68    | 68   | 43   | 37   | 57    |
| 1902. | 37   | 35   | 48   | 55    | 70   | 74   | 76   | 74   | 66    | 59   | 54   | 41   | 57    |
| 1903. | 38   | 42   | 54   | 56    | 67   | 68   | 76   | 76   | 68    | 58   | 46   | 35   | 57    |
| 1904. | 34   | 38   | 49   | 53    | 65   | 72   | 75   | 74   | 70    | 57   | 46   | 39   | 56    |
| 1905. | 34   | 35   | 53   | 57    | 68   | 75   | 75   | 72   | 71    | 59   | 48   | 38   | 57    |
| 1906. | 40   | 40   | 44   | 59    | 64   | 72   | 73   | 75   | 72    | 57   | 48   | 41   | 57    |
| 1907. | 47   | 39   | 55   | 51    | 64   | 70   | 76   | 74   | 70    | 56   | 45   | 41   | 57    |
| M's   | 39.5 | 39.2 | 49.9 | 56.2  | 67.3 | 73.1 | 76.1 | 75.8 | 70.5  | 60.1 | 49.1 | 40.1 | 58.1  |

## Precipitation.

| Year  | Jan.  | Feb.  | Mar. | April | May  | June | July  | Aug.  | Sept. | Oct. | Nov. | Dec. | Year. |
|-------|-------|-------|------|-------|------|------|-------|-------|-------|------|------|------|-------|
| 1891. |       |       |      |       |      |      |       |       |       | 0.37 | 4.31 | 3.65 |       |
| 1892. | 8.12  | 3.67  | 4.96 |       | 3.42 | 9.27 | 7.16  | 6.21  | 4.76  | 0.27 | 3.81 |      |       |
| 1893. |       |       | 2.01 | 1.74  | 3.87 | 6.66 | 4.88  |       | 4.49  | 5.43 | 2.89 | 1.99 |       |
| 1894. | 4.95  | 4.93  | 2.30 | 1.68  | 4.70 | 3.98 | 6.81  | 3.03  | 3.75  | 4.19 | 1.07 |      |       |
| 1895. |       | 2.09  | 6.11 | 5.89  | 3.34 | 3.07 | 3.43  | 4.84  | 2.32  | 0.63 | 3.62 | 4.54 |       |
| 1896. | 3.67  | 4.68  | 1.86 | 1.37  | 5.07 | 4.56 | 9.27  | 2.27  | 3.49  | 2.73 | 9.48 | 2.23 | 50.68 |
| 1897. | 3.45  | 78.5  | 7.79 | 4.82  | 2.88 | 3.63 | 5.75  | 3.45  | 2.42  | 3.94 | 4.54 | 2.39 | 53.41 |
| 1898. | 3.54  | 0.80  | 3.42 | 4.51  | 1.50 | 2.18 | 11.20 | 10.10 | 6.31  | 5.26 | 3.35 | 3.29 | 55.46 |
| 1899. | 5.78  | 7.43  | 7.51 | 4.63  | 0.80 | 2.31 | 1.64  | 2.82  | 2.30  | 2.03 | 1.57 | 3.84 | 42.66 |
| 1900. | 2.88  | 9.13  | 7.58 | 7.92  | 1.90 | 9.75 | 2.23  | 1.39  | 3.51  | 2.86 | 4.11 | 3.68 | 57.24 |
| 1901. | 4.95  | 3.30  | 8.68 | 7.13  | 7.48 | 7.99 | 4.51  | 15.92 | 7.35  | 0.82 | 0.68 | 8.89 | 77.50 |
| 1902. | 3.02  | 9.35  | 4.52 | 1.94  | 1.47 | 5.31 | 3.41  | 4.49  | 4.42  | 3.39 | 2.38 | 6.38 | 50.12 |
| 1903. | 4.94  | 11.59 | 7.35 | 4.47  | 1.13 | 9.06 | 4.04  | 4.05  | 2.16  | 1.34 | 1.95 | 2.23 | 54.45 |
| 1904. | 2.25  | 4.18  | 3.99 | 2.29  | 1.93 | 3.59 | 2.15  | 12.19 | 2.45  | T.   | 3.70 | 4.90 | 43.62 |
| 1905. | 4.69  | 3.73  | 2.05 | 2.38  | 6.51 | 1.95 | 8.91  | 7.98  | 1.97  | 3.32 | 1.44 | 8.85 | 53.18 |
| 1906. | 10.63 | 0.96  | 7.68 | 1.35  | 3.24 | 4.28 | 10.00 | 4.23  | 10.35 | 3.43 | 1.30 | 5.06 | 61.51 |
| 1907. | 0.38  | 2.23  | 2.14 | 3.37  | 4.32 | 6.90 | 2.27  | 5.05  | 6.31  | 1.27 | 6.05 | 6.82 | 47.11 |
| M's   | 4.48  | 5.06  | 4.86 | 3.70  | 3.35 | 5.28 | 5.48  | 5.87  | 4.27  | 2.43 | 3.33 | 4.58 | 52.69 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest Monthly Mean. | Year. | Lowest Monthly Mean. | Year. | Greatest Monthly. | Year. | Least Monthly. | Year. |
| January   | 47                    | 1907  | 34                   | *1904 | 10.63             | 1906  | 0.38           | 1907  |
| February  | 46                    | 1896  | 35                   | *1895 | 11.59             | 1903  | 0.80           | 1898  |
| March     | 55                    | 1907  | 44                   | 1906  | 8.68              | 1901  | 1.86           | 1896  |
| April     | 64                    | 1896  | 51                   | 1907  | 7.92              | 1900  | 1.35           | 1906  |
| May       | 72                    | *1896 | 64                   | *1893 | 7.48              | 1901  | 0.80           | 1899  |
| June      | 76                    | *1898 | 70                   | 1907  | 9.75              | 1900  | 1.95           | 1905  |
| July      | 78                    | *1893 | 73                   | 1906  | 11.20             | 1898  | 1.64           | 1899  |
| August    | 83                    | 1900  | 72                   | 1905  | 15.92             | 1901  | 1.39           | 1900  |
| September | 74                    | *1895 | 66                   | 1902  | 10.35             | 1906  | 1.97           | 1905  |
| October   | 68                    | 1901  | 56                   | 1907  | 5.43              | 1893  | T.             | 1904  |
| November  | 56                    | 1896  | 43                   | 1901  | 6.05              | 1907  | 0.68           | 1901  |
| December  | 44                    | 1897  | 35                   | 1903  | 8.85              | 1905  | 1.99           | 1893  |

\* And other years.

COMPARATIVE MAY DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |                   |                |               | Number Rainy Days. | Prevailing Wind Direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|-------------------|----------------|---------------|--------------------|----------------------------|
|           | Mean.        | Mean Maximum. | Mean Minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                   | Least Monthly. |               |                    |                            |
|           |              |               |               |          |          |                | Amount.           | Place.            | Amount.        | Place.        |                    |                            |
| 1894..... | 70.7         | 80.8          | 60.6          | 98       | 38       | 3.43           | 6.48              | St. Stephens.     | 1.20           | Trenton.      | 9                  | sw.                        |
| 1895..... | 69.0         | 79.0          | 59.5          | 101      | 34       | 4.36           | 9.94              | Greenwood.        | 1.48           | Port Royal.   | 9                  | sw.                        |
| 1896..... | 76.7         | 88.6          | 65.7          | 104      | 42       | 2.74           | 6.07              | Pinopolis.        | 0.52           | Charleston.   | 8                  | sw.                        |
| 1897..... | 69.3         | 81.3          | 57.3          | 97       | 38       | 2.39           | 5.17              | St. Stephens.     | 0.88           | St. George.   | 6                  | sw.                        |
| 1898..... | 73.8         | 86.5          | 51.2          | 106      | 39       | 1.35           | 6.31              | Trial.            | 0.55           | Central.      | 5                  | sw.                        |
| 1899..... | 73.7         | 85.3          | 62.1          | 100      | 45       | 1.68           | 3.72              | Pinopolis.        | 0.53           | Camden.       | 5                  | sw.                        |
| 1900..... | 70.2         | 81.8          | 60.2          | 96       | 38       | 2.37           | 4.99              | Yorkville.        | 1.17           | Society Hill. | 5                  | sw.                        |
| 1901..... | 71.6         | 82.6          | 60.2          | 99       | 40       | 7.31           | 13.08             | Winthrop College. | 2.17           | Beaufort.     | 11                 | sw.                        |
| 1902..... | 74.0         | 85.5          | 62.4          | 101      | 42       | 2.69           | 6.53              | Temperance.       | 0.29           | Liberty.      | 8                  | sw.                        |
| 1903..... | 70.7         | 80.8          | 60.6          | 104      | 44       | 2.69           | 11.97             | Beaufort.         | 0.25           | Liberty.      | 9                  | ne.                        |
| 1904..... | 70.7         | 83.7          | 57.4          | 99       | 38       | 2.04           | 4.67              | Walhalla.         | 0.32           | Sumter.       | 7                  | s.                         |
| 1905..... | 73.4         | 83.2          | 63.5          | 99       | 42       | 5.70           | 9.50              | Smiths Mills.     | 2.95           | Batesburg.    | 13                 | sw.                        |
| 1906..... | 70.7         | 81.4          | 60.0          | 99       | 30       | 3.00           | 5.50              | Calhoun Falls.    | 1.59           | Bowman.       | 7                  | sw.                        |
| 1907..... | 70.8         | 80.8          | 60.8          | 96       | 41       | 4.51           | 8.97              | Bowman.           | 1.98           | Barksdale.    | 10                 | sw.                        |
| 1908..... | 71.8         | 83.9          | 59.8          | 96       | 36       | 2.92           | 7.06              | Beaufort.         | 0.70           | Greenwood.    | 7                  | sw.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1908.

| STATIONS.                  | Counties.    | Elevation—feet. | Length of record—years. | Temperature—in degrees Fahrenheit. |                            |          |       |         |       | Precipitation—inches. |        |                            |                       |                            |                    | Sky.               |                            |                       |                               | Observers.             |
|----------------------------|--------------|-----------------|-------------------------|------------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|--------|----------------------------|-----------------------|----------------------------|--------------------|--------------------|----------------------------|-----------------------|-------------------------------|------------------------|
|                            |              |                 |                         | Mean.                              | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest on any day.  | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, in melted. | Number rainy days. | Number clear days. | Number partly cloudy days. | Number overcast days. | Prevailing direction of wind. |                        |
| Aiken                      | Aiken        | 565             | 24                      | 71.2                               | +2.5                       | 95       | *22   | 45      | 8     | 39                    | 1.45   | -2.21                      | 0.60                  | 0                          | 4                  | 23                 | 6                          | 2                     | w.                            | C. F. McGahan, M. D.   |
| Allendale                  | Barnwell     | 186             | 20                      | 71.2                               | +1.2                       | 91       | 29    | 42      | 1     | 30                    | 2.32   | -1.74                      | 0.66                  | 0                          | 6                  | 24                 | 3                          | 3                     | .....                         | A. R. Hiers.           |
| Anderson                   | Anderson     | 791             | 7                       | 70.8                               | +0.8                       | 96       | 28    | 37      | 1     | 38                    | 3.20   | -0.43                      | 1.08                  | 0                          | 8                  | 19                 | 0                          | 12                    | w.                            | H. H. Russell.         |
| Augusta, Ga.               | Richmond     | 131             | 37                      | 71.0                               | +0.8                       | 91       | 28    | 37      | 1     | 33                    | 0.91   | -2.32                      | 0.28                  | 0                          | 8                  | 21                 | 9                          | 1                     | w.                            | Weather Bureau.        |
| Barksdale                  | Laurens      | 680             | 7                       | 71.8                               | .....                      | 95       | *23   | 30      | 1     | 32                    | 1.58   | .....                      | 1.00                  | 0                          | 4                  | 18                 | 9                          | 1                     | w.                            | J. T. Garrett.         |
| Batesburg                  | Lexington    | 656             | 20                      | 70.9                               | -0.8                       | 92       | 28    | 37      | 1     | 32                    | 1.05   | 2.30                       | 0.62                  | 0                          | 6                  | 22                 | 2                          | 7                     | .....                         | E. J. Hite.            |
| Beaufort                   | Beaufort     | 20              | 22                      | 75.8                               | +1.9                       | 94       | 20    | 54      | 10    | 29                    | 7.06   | +4.00                      | 2.45                  | 0                          | 11                 | 14                 | 13                         | 1                     | .....                         | Miss E. G. Rice.       |
| Bennettsville              | Marlboro     | 151             | 7                       | 73.1                               | .....                      | 93       | 31    | 40      | 1     | 36                    | 3.40   | .....                      | 1.30                  | 0                          | 6                  | 21                 | 9                          | 1                     | .....                         | C. S. McCall.          |
| Blackville                 | Barnwell     | 206             | 20                      | 74.8                               | +1.1                       | 96       | 21    | 47      | 1     | 38                    | 3.18   | 0.49                       | 1.21                  | 0                          | 8                  | 23                 | 5                          | 3                     | .....                         | Miss M. E. Lange.      |
| Blairs                     | Fairfield    | 293             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 4.64   | .....                      | 2.00                  | 0                          | 4                  | .....              | .....                      | .....                 | .....                         | T. S. McMeekin.        |
| Bowman                     | Orangeburg   | 160             | 7                       | 74.4                               | .....                      | 95       | 23    | 40      | 1     | 40                    | 3.01   | .....                      | 0.62                  | 0                          | 9                  | 19                 | 12                         | 0                     | .....                         | B. O. Evans.           |
| Calhoun Falls              | Abbeville    | 508             | 15                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.17   | -1.46                      | 0.92                  | 0                          | 5                  | 26                 | 0                          | 5                     | .....                         | P. J. Pfeiffer.        |
| Canden (1)                 | Kershaw      | .....           | 2                       | 72.2                               | .....                      | 93       | *28   | 38      | 1     | 36                    | 1.72   | .....                      | 1.06                  | 0                          | 8                  | 21                 | 7                          | 3                     | .....                         | J. B. Mickle.          |
| Canden (2)                 | Kershaw      | 222             | 42                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.94   | -0.39                      | 1.10                  | 0                          | 7                  | 19                 | 9                          | 3                     | .....                         | W. C. Brown.           |
| Catawba                    | York         | .....           | 2                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.03   | .....                      | 1.00                  | 0                          | 6                  | 21                 | 2                          | 8                     | .....                         | Jas. C. Faris.         |
| Chappells                  | Newberry     | 402             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 1.84   | .....                      | 1.50                  | 0                          | 3                  | 13                 | 11                         | 6                     | .....                         | W. R. Zimmerman.       |
| Charleston                 | Charleston   | 48              | 39                      | 74.0                               | +1.6                       | 93       | 29    | 46      | 1     | 30                    | 2.01   | -1.46                      | 0.62                  | 0                          | 10                 | 11                 | 17                         | 3                     | .....                         | Weather Bureau.        |
| Charlotte, N. C.           | Mecklenburg  | 808             | 30                      | 68.8                               | +0.4                       | 89       | 28    | 37      | 1     | 34                    | 2.20   | -1.72                      | 1.34                  | 0                          | 8                  | 14                 | 12                         | 5                     | .....                         | Weather Bureau.        |
| Cheraw (1)                 | Chesterfield | 144             | 20                      | 71.2                               | +0.4                       | 93       | *13   | 38      | 1     | 56                    | 4.08   | +0.25                      | 0.84                  | 0                          | 9                  | 14                 | 7                          | 10                    | .....                         | W. R. Godfrey.         |
| Cheraw (2)                 | .....        | 144             | 15                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 3.74   | -0.23                      | 0.84                  | 0                          | 9                  | 20                 | 7                          | 4                     | .....                         | Jno. H. Powe.          |
| Clarks Hill                | Edgefield    | 500             | 6                       | 71.3                               | .....                      | 96       | 22    | 36      | 1     | 39                    | 2.10   | .....                      | 0.78                  | 0                          | 6                  | 10                 | 8                          | 12                    | .....                         | Wm. S. Middleton.      |
| Clemson College            | Oconee       | 850             | 17                      | 69.0                               | +1.0                       | 87       | *22   | 42      | 1     | 35                    | 1.58   | -1.59                      | 0.78                  | 0                          | 3                  | 21                 | 8                          | 2                     | .....                         | Jno. N. Hook.          |
| Columbia                   | Richland     | 351             | 21                      | 72.5                               | +0.7                       | 93       | 15    | 40      | 1     | 32                    | 2.93   | -0.26                      | 0.95                  | 0                          | 10                 | 10                 | 15                         | 6                     | .....                         | Central Office.        |
| Conway                     | Horry        | 25              | 16                      | 72.5                               | .....                      | 95       | 31    | 40      | 1     | 38                    | 2.13   | -1.11                      | 0.65                  | 0                          | 7                  | 17                 | 7                          | 7                     | .....                         | P. C. Quattlebaum.     |
| Darlington                 | Darlington   | 175             | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 3.95   | +0.32                      | 0.95                  | 0                          | 7                  | 23                 | 2                          | 6                     | .....                         | D. C. McCall.          |
| Dillon                     | Marion       | 100             | 4                       | 72.4                               | .....                      | 95       | *22   | 37      | 1     | 35                    | 1.79   | .....                      | 0.92                  | 0                          | 8                  | .....              | .....                      | .....                 | .....                         | A. E. Rowell.          |
| Due West                   | Abbeville    | 730             | 7                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 4.11   | .....                      | 1.65                  | 0                          | 11                 | 23                 | 3                          | 5                     | .....                         | Rev. O. Y. Bonner.     |
| Ellingham                  | Florence     | 106             | 16                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 4.46   | +1.01                      | 1.50                  | 0                          | 8                  | 23                 | 3                          | 5                     | .....                         | H. B. McCall.          |
| Ferguson                   | .....        | .....           | 1                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.90   | -0.25                      | 1.00                  | 0                          | 9                  | 15                 | 15                         | 1                     | .....                         | John T. Bowers.        |
| Florence                   | Florence     | 136             | 20                      | 73.2                               | +0.6                       | 96       | 22    | 40      | 1     | 35                    | 4.46   | +1.01                      | 1.50                  | 0                          | 8                  | 23                 | 3                          | 5                     | .....                         | H. K. Gilbert.         |
| Georgetown                 | Georgetown   | 12              | 15                      | 73.4                               | +1.4                       | 90       | *20   | 49      | 1     | 28                    | 2.90   | -0.25                      | 1.00                  | 0                          | 9                  | 15                 | 15                         | 1                     | .....                         | Wm. Alden James.       |
| Greenville                 | Greenville   | 989             | 16                      | 68.4                               | +0.9                       | 88       | *22   | 36      | 1     | 36                    | 1.45   | -1.83                      | 0.45                  | 0                          | 8                  | 19                 | 1                          | 11                    | .....                         | Mrs. S. A. Crittenden. |
| Greenwood                  | Greenwood    | 671             | 20                      | 72.3                               | +0.8                       | 96       | 29    | 38      | 1     | 33                    | 0.70   | -2.88                      | 0.50                  | 0                          | 3                  | 25                 | 0                          | 6                     | .....                         | M. M. Calhoun.         |
| Heath Spring               | Lancaster    | 568             | 7                       | 73.2                               | .....                      | 95       | 15    | 46      | 2     | 30                    | 2.45   | .....                      | 1.00                  | 0                          | 9                  | 16                 | 12                         | 3                     | .....                         | J. A. Weaver.          |
| Kingsree (1)               | Williamsburg | 54              | 20                      | 74.3                               | +2.1                       | 92       | 22    | 46      | 1     | 25                    | 3.86   | +0.89                      | 1.43                  | 0                          | 9                  | 24                 | 5                          | 2                     | .....                         | J. A. Scott.           |
| Kingsree (2)               | .....        | 54              | 14                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 4.43   | +1.93                      | 1.50                  | 0                          | 7                  | 20                 | 7                          | 4                     | .....                         | A. O. Matthews.        |
| Liberty                    | Pickens      | 900             | 14                      | 72.5                               | +1.8                       | 95       | 22    | 38      | 1     | 35                    | 3.45   | +0.58                      | 0.90                  | 0                          | 8                  | 17                 | 12                         | 2                     | .....                         | Jno. T. Boggs.         |
| Little Mountain            | Newberry     | 630             | 15                      | 72.4                               | +0.1                       | 93       | 28    | 39      | 1     | 46                    | 2.58   | 0.55                       | 0.76                  | 0                          | 7                  | 13                 | 11                         | 7                     | .....                         | John M. Sease, M. D.   |
| Newberry                   | Newberry     | 502             | 4                       | 72.8                               | +1.5                       | 96       | 29    | 36      | 1     | 39                    | 1.21   | -1.49                      | 0.74                  | 0                          | 7                  | 11                 | 15                         | 5                     | .....                         | W. G. Peterson.        |
| Pelzer                     | Anderson     | 873             | 3                       | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.12   | .....                      | 0.65                  | 0                          | 5                  | 20                 | 4                          | 7                     | .....                         | John M. Ward.          |
| Pinopolis                  | Berkeley     | 54              | 15                      | 72.6                               | +1.8                       | 88       | 29    | 48      | 1     | .....                 | 4.95   | +1.29                      | 1.05                  | 0                          | 7                  | 16                 | 8                          | 7                     | .....                         | E. P. Ravenel.         |
| St. George                 | Dorchester   | 100             | 20                      | 75.2                               | +2.6                       | 90       | *15   | 43      | 1     | 35                    | 4.67   | +1.65                      | 0.99                  | 0                          | 11                 | 26                 | 0                          | 5                     | .....                         | G. T. Lewis.           |
| St. Matthews               | Orangeburg   | 260             | 20                      | 71.2                               | -1.3                       | 89       | *15   | 42      | 1     | 34                    | 3.47   | -0.03                      | 0.94                  | 0                          | 6                  | 26                 | 0                          | 5                     | .....                         | J. S. Warramaker.      |
| Saluda                     | Saluda       | 536             | 6                       | 72.8                               | .....                      | 95       | 23    | 37      | 1     | 32                    | 2.74   | .....                      | 1.97                  | 0                          | 4                  | 29                 | 1                          | 1                     | .....                         | Alvin Etheridge.       |
| Santee                     | Union        | 512             | 14                      | 71.3                               | +1.2                       | 95       | 29    | 37      | 1     | 38                    | 2.86   | -0.15                      | 1.28                  | 0                          | 5                  | 11                 | 14                         | 6                     | .....                         | E. W. Jeter.           |
| Savannah, Ga.              | Chatham      | 71              | 39                      | 74.5                               | +2.0                       | 92       | 16    | 46      | 1     | 31                    | 2.65   | -0.35                      | 1.09                  | 0                          | 11                 | 13                 | 15                         | 3                     | .....                         | Weather Bureau.        |
| Smith Mills                | Williamsburg | 62              | 13                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.74   | -1.85                      | 1.28                  | 0                          | 6                  | 22                 | 0                          | 9                     | .....                         | W. G. Walker.          |
| Society Hill               | Darlington   | 192             | 17                      | 71.8                               | +0.6                       | 90       | 31    | 48      | 1     | 32                    | 3.79   | +0.42                      | 1.25                  | 0                          | 9                  | 20                 | 4                          | 7                     | .....                         | F. J. Lucas.           |
| Spartanburg                | Spartanburg  | 875             | 17                      | 70.6                               | +0.1                       | 96       | 28    | 37      | 1     | 41                    | 3.74   | +0.36                      | 0.83                  | 0                          | 9                  | 17                 | 1                          | 12                    | .....                         | J. P. Robinson.        |
| Stateburg                  | Sumter       | 500             | 31                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | 5.14   | +1.73                      | 1.24                  | 0                          | 10                 | 8                  | 18                         | 5                     | .....                         | W. W. Anderson, M. D.  |
| Summerville                | Dorchester   | 75              | 11                      | 72.8                               | +1.1                       | 94       | 29    | 40      | 1     | 36                    | 1.51   | -1.27                      | 0.80                  | 0                          | 4                  | 15                 | 15                         | 1                     | .....                         | Miss E. H. Gadsden.    |
| Trenton                    | Edgefield    | 620             | 15                      | 71.0                               | -2.0                       | 96       | 29    | 40      | 1     | 31                    | 1.51   | -1.27                      | 0.80                  | 0                          | 4                  | 15                 | 15                         | 1                     | .....                         | C. A. Long.            |
| Trial                      | Berkeley     | 85              | 22                      | 72.2                               | +1.6                       | 93       | 22    | 40      | 1     | 34                    | 4.19   | 0.26                       | 2.00                  | 0                          | 10                 | 10                 | 18                         | 3                     | .....                         | Etsell Gaillard.       |
| Walhalla                   | Oconee       | 1061            | 17                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....                 | .....                         | Miss Jessie Douthit.   |
| Walterboro                 | Colleton     | 60              | 5                       | 73.0                               | .....                      | 93       | 31    | 41      | 1     | 35                    | 3.39   | .....                      | 1.10                  | 0                          | 7                  | 17                 | 11                         | 2                     | .....                         | J. A. Westerberg.      |
| Wilmington, N. C.          | New Hanover  | 52              | 39                      | 70.8                               | +1.7                       | 89       | 30    | 42      | 1     | 25                    | 2.80   | -1.23                      | 1.26                  | 0                          | 9                  | 10                 | 16                         | 5                     | .....                         | Weather Bureau.        |
| Winnsboro                  | Fairfield    | 545             | 19                      | 71.6                               | +0.1                       | 96       | 30    | 40      | 1     | 30                    | 1.10   | -1.89                      | 0.60                  | 0                          | 4                  | 17                 | 14                         | 0                     | .....                         | John W. Seigler.       |
| Winthrop College           | York         | 690             | 9                       | 70.8                               | .....                      | 93       | 29    | 38      | 1     | 34                    | 2.35   | .....                      | 0.98                  | 0                          | 6                  | 15                 | 11                         | 4                     | .....                         | E. R. Rivers.          |
| Yemassee                   | Beaufort     | 23              | 13                      | 72.7                               | -1.1                       | 91       | 22    | 41      | 1     | 31                    | 5.45   | +2.29                      | 1.92                  | 0                          | 9                  | 25                 | 1                          | 5                     | .....                         | J. G. Hutson.          |
| Yorkville                  | York         | 680             | 20                      | .....                              | .....                      | .....    | ..... | .....   | ..... | .....                 | .....  | .....                      | .....                 | .....                      | .....              | .....              | .....                      | .....                 | .....                         | J. R. Schorb.          |
| Means, extremes, and dates |              |                 |                         | 71.8                               | +0.9                       | 96       | *21   | 36      | 1     | 46                    | 2.92   | -0.37                      | 2.45                  | 0                          | 7                  | 16                 | 11                         | 4                     | sw.                           | .....                  |

NOTE. — All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation.      † Maximum thermometer not standard.      ‡ Minimum thermometer not standard.      § Exposed not standard.  
\* On other dates also.      a indicates 1 day missing, b, 2 days, etc.      ° The state of sky at 8 a.m. not used in averages.



## CLIMATOLOGICAL REPORT: SOUTH CAROLINA SECTION.

MAY, 1908.

DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MAY, 1908.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperature then observed appears in the maximum column for the preceding day on which it nearly always occurs.

+ The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



## TOTAL PRECIPITATION FOR MAY, 1942



## DAILY PRECIPITATION FOR SOUTH CAROLINA. MAY, 1908.

| STATIONS.         | Day of Month. |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     |      |      |      |      |      |     |      |     |     |     |     |     |      |      |      | Total. |      |      |
|-------------------|---------------|---|---|------|------|-----|------|-----|---|----|----|----|----|----|----|-----|------|------|------|------|------|-----|------|-----|-----|-----|-----|-----|------|------|------|--------|------|------|
|                   | 1             | 2 | 3 | 4    | 5    | 6   | 7    | 8   | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16  | 17   | 18   | 19   | 20   | 21   | 22  | 23   | 24  | 25  | 26  | 27  | 28  | 29   | 30   | 31   |        |      |      |
| Aiken             |               |   |   |      |      |     | .15  |     |   |    |    |    |    |    |    |     |      |      | .50  |      |      |     | .20  |     |     |     |     |     |      | .60  | 1.45 |        |      |      |
| Allendale         |               |   |   |      |      | .47 |      |     |   |    |    |    |    |    |    |     |      | .66  | .12  |      |      | .50 |      | .22 |     |     |     |     |      | .35  | 2.32 |        |      |      |
| Anderson          |               |   |   |      |      | .04 | .41  |     |   |    |    |    |    |    |    |     |      | .08  | 1.08 |      |      |     | .51  | .03 |     |     |     | .53 | .52  |      | 3.20 |        |      |      |
| Augusta, Ga.      |               |   |   |      |      | .06 |      |     |   |    |    |    |    |    |    | .01 | .14  | .28  | T.   |      |      | .08 | T.   | .03 | .10 |     |     | .21 |      |      | 0.91 |        |      |      |
| Barksdale         |               |   |   |      |      | T.  | .30  |     |   |    |    |    |    |    |    |     |      | T.   | .18  |      |      |     |      |     |     |     |     | .70 | 1.00 | T.   | 1.58 |        |      |      |
| Batesburg         |               |   |   |      |      | T.  | .11  |     |   |    |    |    |    |    |    | .02 |      | .10  | .62  | .09  |      |     |      | .11 |     | T.  |     |     |      | T.   | 1.05 |        |      |      |
| Beaufort          |               |   |   |      | .39  |     |      |     |   |    |    |    |    |    |    | .45 | .31  | .10  | .10  | .02  | 1.63 |     |      |     | .22 |     |     | .07 | 1.32 | 2.45 | 7.06 |        |      |      |
| Bennettsville     |               |   |   |      | .06  | .41 |      |     |   |    |    |    |    |    |    | T.  | T.   | .66  | 1.30 | .39  |      | T.  | .58  |     |     |     |     |     |      |      |      | 3.40   |      |      |
| Blackville        |               |   |   |      | .20  | .13 |      |     |   |    |    |    |    |    |    |     | .28  | .44  | .06  |      |      |     | .21  | .65 | T.  |     |     |     | 1.21 |      |      | 3.18   |      |      |
| Blairs            | .20           |   |   |      |      |     | .04  |     |   |    |    |    |    |    |    |     |      | 2.00 | .20  |      |      |     |      |     |     |     |     |     |      | 2.20 |      | 4.64   |      |      |
| Bowman            |               |   |   |      | T.   | .26 | .38  |     |   |    |    |    |    |    |    |     | .18  | .21  |      | .92  |      |     | .62  | .58 | .51 | .12 |     | .15 | T.   |      |      | 3.01   |      |      |
| Calhoun Falls     |               |   |   |      |      |     | .29  |     |   |    |    |    |    |    |    |     |      |      | .92  |      |      |     |      |     |     |     |     |     | .61  | .24  |      | 2.17   |      |      |
| Camden (1)        |               |   |   |      |      | .02 | .10  |     |   |    |    |    |    |    |    | T.  | .07  |      | 1.06 |      |      | T.  |      | .08 | .15 |     |     |     | .11  |      | .13  | 1.72   |      |      |
| Camden (2)        | .20           |   |   |      |      |     | .48  |     |   |    |    |    |    |    |    |     |      | .06  | .90  | .08  |      |     |      |     | .12 |     |     |     |      | 1.10 |      | 2.94   |      |      |
| Catawba           | .36           |   |   |      |      |     | .12  | .21 |   |    |    |    |    |    |    |     |      |      | .84  | .10  | 1.00 |     |      |     |     |     |     |     |      |      |      | 2.63   |      |      |
| Chappells         |               |   |   |      |      |     | .30  |     |   |    |    |    |    |    |    |     |      |      | 1.50 |      |      |     |      |     |     |     |     |     |      | .04  |      | 1.84   |      |      |
| Charleston        |               |   |   |      |      | .17 | .05  |     |   |    |    |    |    |    |    | .05 | .62  |      | .20  |      | .51  |     | .01  | .01 | .08 | T.  | T.  | .10 | .22  |      |      | 2.01   |      |      |
| Charlotte, N. C.  |               |   |   |      | T.   | .03 | .50  |     |   |    |    |    |    |    |    | T.  | T.   | .41  | .94  | .22  |      | .01 |      |     | .04 | T.  |     |     | .05  |      |      | 2.20   |      |      |
| Cheraw (1)        | .14           |   |   |      |      | T.  | .76  |     |   |    |    |    |    |    |    | T.  | .03  | .07  | .81  | .84  | .46  |     | .28  | .69 |     | T.  |     |     |      |      |      | 4.08   |      |      |
| Cheraw (2)        |               |   |   |      |      | .02 | .75  |     |   |    |    |    |    |    |    | T.  | .04  | .08  | .76  | .72  | .37  |     | .16  | .84 |     | T.  |     |     |      |      |      | 3.74   |      |      |
| Clark's Hill      |               |   |   |      |      | T.  | .10  |     |   |    |    |    |    |    |    |     | .03  |      |      |      | T.   |     | .34  | .80 | .05 |     |     | .78 |      |      |      | 2.10   |      |      |
| Clemson College   |               |   |   |      |      |     | .57  |     |   |    |    |    |    |    |    |     |      | .23  |      |      |      |     |      |     |     |     |     |     |      |      |      | 1.58   |      |      |
| Columbia          |               |   |   |      |      | .08 | .20  |     |   |    |    |    |    |    |    | T.  | .43  | .20  | .47  |      |      | .04 | .95  | T.  | .12 |     |     |     | .43  | .01  |      | 2.93   |      |      |
| Conway            | .26           |   |   |      |      | .65 | .28  |     |   |    |    |    |    |    |    |     |      | .36  | .45  | T.   |      |     | .03  | .10 |     |     |     |     |      |      |      | 2.13   |      |      |
| Darlington        |               |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     |      |      |      |      |      |     |      |     |     |     |     |     |      |      |      |        |      |      |
| Dillon            |               |   |   |      | .05  | .37 | .14  |     |   |    |    |    |    |    |    |     | T.   |      | .92  | .08  |      |     | .05  | .15 | T.  | .03 | T.  |     |      |      |      | 1.79   |      |      |
| Due West          |               |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     |      |      |      |      |      |     |      |     |     |     |     |     |      |      |      |        |      |      |
| Effingham         |               |   |   |      |      | .25 | .35  |     |   |    |    |    |    |    |    |     |      | .90  |      |      |      |     | .60  | .95 |     |     | .75 |     | .15  |      |      | 3.95   |      |      |
| Ferguson          |               |   |   |      |      | .82 | .62  |     |   |    |    |    |    |    |    |     | .15  | .25  |      | .05  |      |     | 1.65 | .10 | .10 | .04 |     | .23 |      | .10  |      | 4.11   |      |      |
| Florence          |               |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     | .30  | .05  | .90  | .06  |      |     | 1.50 | T.  |     |     |     |     | .15  |      |      | 4.46   |      |      |
| Georgetown        |               |   |   | 1.00 |      |     |      |     |   |    |    |    |    |    |    |     | .06  |      | .45  | T.   | .30  | .03 |      | .38 |     | .02 |     | T.  | .03  | .63  |      | 2.90   |      |      |
| Greenville        | .45           |   |   |      |      | T.  | .38  |     |   |    |    |    |    |    |    | .02 |      | T.   | .36  | .02  |      |     |      |     |     | .04 |     |     | .12  | .06  |      | 1.45   |      |      |
| Greenwood         |               |   |   |      |      |     | .15  |     |   |    |    |    |    |    |    |     |      | .50  |      |      |      |     |      |     |     |     |     |     | .05  |      |      | 0.70   |      |      |
| Heath Spring      |               |   |   |      |      | .10 | .07  |     |   |    |    |    |    |    |    |     | 1.00 | .23  | .09  |      |      |     | .06  | .01 |     |     |     | .40 | .49  |      |      | 2.45   |      |      |
| Kingstree (1)     | .05           |   |   |      |      | .68 | .35  |     |   |    |    |    |    |    |    |     |      | .40  | .01  |      |      |     |      | .15 |     |     | .55 |     | 1.43 | .24  |      | 3.86   |      |      |
| Kingstree (2)     | .38           |   |   |      |      | .72 | .27  |     |   |    |    |    |    |    |    |     |      | .42  |      |      |      |     |      |     |     |     | .92 |     | 1.50 | .22  |      | 4.43   |      |      |
| Liberty           |               |   |   |      |      | .24 | .56  |     |   |    |    |    |    |    |    | .10 | T.   | .90  |      |      |      |     | .70  | .10 |     |     | .05 | T.  | .80  | T.   |      | 3.45   |      |      |
| Little Mountain   |               |   |   |      |      | .05 | .25  |     |   |    |    |    |    |    |    |     | .76  | .19  | .73  |      |      |     | .24  |     |     |     |     |     | .36  |      |      | 2.58   |      |      |
| Newberry          |               |   |   |      |      | .05 | .15  |     |   |    |    |    |    |    |    |     | T.   | .17  | .71  | .01  |      |     | .01  |     | .08 |     |     |     |      |      |      | 1.21   |      |      |
| Pelzer            | .65           |   |   |      |      |     | .42  |     |   |    |    |    |    |    |    |     |      | T.   | .46  |      |      |     |      |     | .34 |     |     |     |      | .25  |      | 2.12   |      |      |
| Pinopolis         |               |   |   |      | 1.05 | .91 |      |     |   |    |    |    |    |    |    |     | .75  |      | .52  |      |      |     | .30  | .87 |     |     |     | .55 |      |      |      | 4.95   |      |      |
| St. George        | .01           |   |   |      |      | .95 |      |     |   |    |    |    |    |    |    |     | .05  | .10  | .10  | .01  |      |     | .77  | .69 | .99 |     | .43 |     | .57  |      |      | 4.07   |      |      |
| St. Matthews      |               |   |   |      |      | .40 | .50  |     |   |    |    |    |    |    |    |     |      | .85  |      |      |      |     | .94  |     |     |     |     |     | .38  |      |      | 3.47   |      |      |
| Saluda            |               |   |   |      |      | T.  | .05  | .16 |   |    |    |    |    |    |    |     |      | 1.97 |      | .56  |      |     |      | T.  |     | T.  |     |     |      |      |      | 2.74   |      |      |
| Sautuc            |               |   |   |      |      | T.  | .34  |     |   |    |    |    |    |    |    |     | .12  | 1.28 | T.   |      |      |     | .78  |     | T.  |     |     | .34 |      |      |      | 2.86   |      |      |
| Savannah, Ga.     |               |   |   | .02  | .01  | .08 | .07  |     |   |    |    |    |    |    |    | T.  | .31  | .10  |      | .23  | T.   |     |      | .03 | .71 |     | T.  |     | .19  | .90  |      | 2.65   |      |      |
| Smith Mills       | .41           |   |   |      |      | T.  | 1.28 |     |   |    |    |    |    |    |    |     | .08  | .95  | .32  | 1.25 |      | .30 | .10  | .05 |     |     |     |     |      |      | .20  | 2.74   |      |      |
| Society Hill      |               |   |   |      |      | .10 | .64  |     |   |    |    |    |    |    |    |     |      | .70  | .02  | .40  | .10  |     | T.   |     |     |     |     |     |      |      |      | 3.79   |      |      |
| Spartanburg       | .50           |   |   |      |      |     | .40  |     |   |    |    |    |    |    |    |     |      | .09  | .59  |      |      |     |      |     |     |     |     |     | .83  | .32  | .47  |        | 3.74 |      |
| Stateburg         |               |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     |      | .03  |      |      |      |     |      |     |     |     |     |     | .80  | .03  |      | 1.51   |      |      |
| Summerville       |               |   |   |      | T.   |     | .78  | T.  |   |    |    |    |    |    |    |     | .96  | .44  | 1.24 |      | .21  |     | T.   | .02 | .70 |     | .03 |     | T.   | .62  | T.   | 5.14   |      |      |
| Trenton           |               |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     | .12  | .06  | .42  | .49  |      |     | 2.00 | .01 | .03 | .10 |     | .12 |      | T.   |      | 4.19   |      |      |
| Trial             |               |   |   |      |      | .74 | .10  |     |   |    |    |    |    |    |    |     |      |      |      |      |      |     |      |     |     |     |     |     |      |      |      |        |      |      |
| Walhalla          |               |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     |      |      |      |      |      |     |      |     |     |     |     |     |      |      |      |        |      |      |
| Walterboro        |               |   |   |      |      | T.  | .53  |     |   |    |    |    |    |    |    |     | T.   |      | .98  | T.   |      | .28 |      |     |     | .34 |     | .02 |      | .14  | 1.10 |        | 3.39 |      |
| Wilmington, N. C. |               |   |   |      |      | T.  | .89  | .37 |   |    |    |    |    |    |    |     | T.   | T.   |      | .54  | .72  | .01 |      | .17 | .02 |     |     | .03 | .05  |      |      | 2.80   |      |      |
| Winnboro          |               |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     |      |      | .10  |      | .20  | .60 |      |     |     |     |     | .20 | T.   |      |      | 1.10   |      |      |
| Winthrop College  |               |   |   |      |      | T.  | .03  | .57 |   |    |    |    |    |    |    |     | T.   | T.   | T.   | .98  | .36  |     | .08  |     |     |     | T.  |     |      | .33  |      |        | 2.35 |      |
| Yemassee          | .20           |   |   |      |      |     | 1.92 |     |   |    |    |    |    |    |    |     |      | .61  |      | .09  | .10  | .52 |      |     |     |     | T.  |     | .40  |      | .79  | 80     | .02  | 5.45 |
| Yorkville         |               |   |   |      |      |     |      |     |   |    |    |    |    |    |    |     |      |      |      |      |      |     |      |     |     |     |     |     |      |      |      |        |      |      |

T. indicates trace, less than .01 inch.



657.46  
1.7.80

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JUNE, 1908.

SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF  
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY  
J. W. BAUER

SECTION DIRECTOR

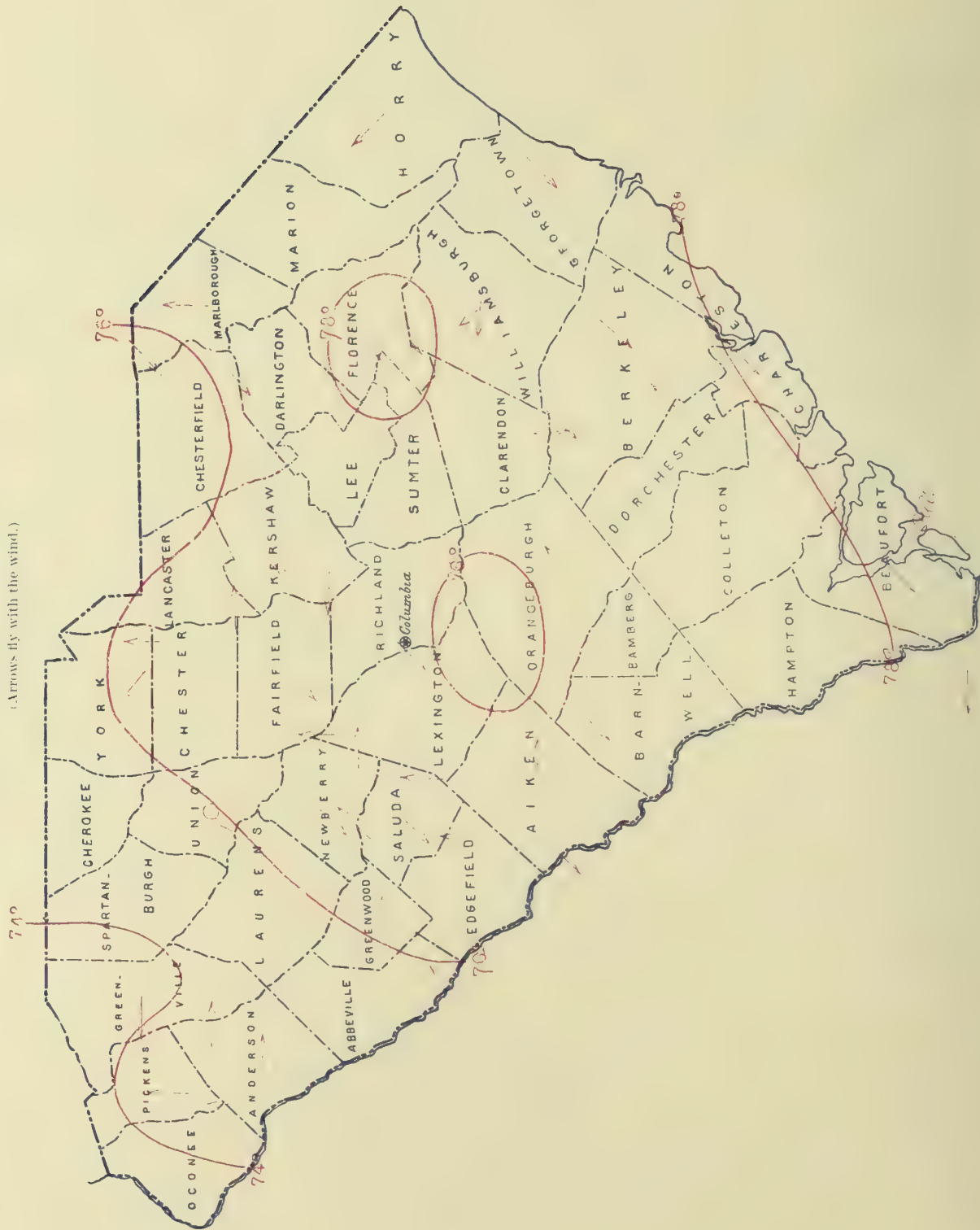


PITTSBURG, PA.  
WEATHER BUREAU OFFICE

AUGUST 20, 1908.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JUNE, 1908.

(Arrows fly with the wind.)





# U. S. DEPARTMENT OF AGRICULTURE, CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

Vol. XI.

COLUMBIA, S. C., JUNE, 1908.

No. 6.

### GENERAL SUMMARY.

The temperature was generally favorable thruout the month. Except a few days early in the month, and at the end of the second decade, the daily mean temperature was continuously below the normal, tho the departures were small as a rule. The precipitation was generally ample, tho only fairly well distributed. The average sunshine was slightly deficient. The monthly mean temperature was lower in 1900, 1903, and 1907, and was higher in every other June since 1894. The average precipitation was nearly the same as in 1896 and 1897, being approximately normal.

The monthly mean temperature varied but little in the central and eastern portions, where the differences were generally less than 3°, while the difference between the extreme southern and extreme northwestern portions was slightly over 5°, being somewhat less than the usual range. High maximum temperatures occurred at the beginning of the second and third decades, respectively, when they were in the nineties over the entire State. The 8th, 16th, and 28th-29th were the coolest periods, the lowest temperatures being generally recorded on the earliest date.

The precipitation was above the normal—with amounts ranging from six to nine inches—in the eastern portion, except along the immediate coast, where marked deficiencies occurred. There were also small areas in the Savannah valley, and in the north central and northeastern counties, where the rainfall was below the normal. Over the remainder of the State the amounts ranged from four to six inches. There were three rainy periods, namely, the 4th-6th, 10th-12th, and 21st-26th. Practically no rain fell on the 1st-2d, 8th-9th, 27th-29th, and only widely scattered showers on other days. Excessive precipitation was recorded locally in the eastern portion on the 5th and 25th.

Hail and high winds, accompanying thunderstorms, occurred on a number of days, but without doing any material injury.

### TEMPERATURE.

The mean temperature was 76.6°, which is 1.1° below the normal. The highest local mean was 79.1°, at Beaufort; the lowest was 73.4°, at Greenville. The monthly extremes were 100°, at Florence and Heath Springs, on the 20th, and 48°, at Liberty, on the 8th, making the State range 52°. The greatest local monthly range was 46°, at Liberty; the least was 23°, at Charleston. The mean of the daily maximum temperatures

was 86.9°, and of the daily minimum temperatures was 66.4°, making the average daily range 20.5°.

### PRECIPITATION.

The average precipitation was 4.90 inches, which is 0.34 of an inch below the normal. The greatest local monthly amount was 9.10 inches, at Walterboro; the least was 1.08 inches, at Smiths Mills. The greatest 24-hour rainfall was 3.82 inches, at Saint Matthews, on the 23d. The average number of days with rain was nine, ranging from four days at Allendale to fifteen days at Pelzer.

**EXCESSIVE PRECIPITATION:** At Bowman, on the 25th, 2.68 inches in 8 hours; at Camden, on the 20th, 1.59 inches in 1 hour; at Effingham, on the 25th, 2.50 inches in 24 hours; at Ferguson, on the 5th, 2.65 inches in 24 hours; at Jacksonboro, on the 12th, 1.69 inches in 1 hour, and on the 21st 1.07 inches in 1 hour; at Kingstree (1), on the 5th, 3.50 inches in 12 hours; at Kingstree (2), on the 5th, 3.00 inches in 4 hours; at Newberry, on the 25th, 1.80 inches in 40 minutes; at St. George, on the 5th, 2.60 inches in 5 hours; at St. Matthews, on the 23d, 3.82 inches in 4 hours and 30 minutes; at Walterboro, on the 5th, 2.61 inches in 24 hours; at Yemassee, on the 10th, 2.56 inches in 4 hours and 15 minutes.

### WIND.

The prevailing direction of the wind was northeast at 19 stations, south at 8 stations, west at 6 stations, east southeast and southwest at 4 stations each, and north at 1 station.

### SUNSHINE AND CLOUDINESS.

The average number of clear days was 13, of partly cloudy days was 13, and of cloudy days 4.

### MISCELLANEOUS PHENOMENA.

**LUNAR HALO.**—At Charleston on the 12th.

**PARHELIA.**—At Liberty on the 6th, 8th.

**HAIL.**—At Camden on the 20th; at Newberry on the 25th; at Saluda on the 17th, 22d; at Society Hill on the 26th; at Walterboro on the 2d.

**DENSE FOGS.**—At Blackville and Bowman on the 18th; at Camden on the 11th; at Liberty on the 15th, 25th; at Newberry on the 18th, 19th; at Trial on the 13th, 18th, 19th; at Jacksonboro and Walterboro on the 3d.

**HIGH WINDS.**—At Beaufort on the 10th, 12th, 24th, 25th; at Blackville and Columbia on the 10th; at Camden on the 10th, 15th, 20th, 21st; at Charleston on the 22d; at Greenville on the 10th, 21st; at Smith Mills on the 23d; at Trial on the 10th, 20th, 21st.

**THUNDERSTORMS.**—Thunderstorms occurred on 22 days. There were five periods of maximum frequency, namely, on the 2d-5th, 10th-12th, 14th, 17th, and 20th-25th, when from 3 to 15 of the 20 stations that record thunderstorms reported their occurrence. They were comparatively infrequent on the 6th, 9th, 13th, 16th, 18th, and 26th. None occurred on the 1st, 7th, 8th, 19th, and 27th-30th.



## BAROMETER AND WIND TABLE FOR JUNE, 1908.

| STATIONS.         | BAROMETER. |          |       |         |       | WIND.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.05      | 30.22    | 28    | 29.86   | 9     | 3798            | 5.3             | 32                | nw.        | 4     |
| Charleston        | 30.04      | 30.23    | 28    | 29.87   | 10    | 7124            | 9.9             | 39                | ne.        | 22    |
| Charlotte, N. C.  | 30.07      | 30.20    | 7     | 29.85   | 10    | 2965            | 4.1             | 24                | w.         | 10    |
| Columbia          | 30.05      | 30.24    | 28    | 29.84   | 9     | 4069            | 5.6             | 30                | w.         | 10    |
| Savannah, Ga.     | 30.05      | 30.21    | 18    | 29.88   | 9     | 4593            | 6.4             | 30                | w.         | 10    |
| Wilmington, N. C. | 30.06      | 30.24    | 18    | 29.83   | 10    | 5174            | 7.2             | 28                | w.         | 22    |
| Averages.....     | 30.05      | 30.29    | 7     | 29.83   | 10    | 4620            | 6.4             | 39                | ne.        | 22    |

## RIVER GAGE READINGS, JUNE, 1908.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blair's          | 1.9   | 7.0      | *24   | 0.4     | 30    |
| Calhoun Falls    | 3.5   | 5.2      | 15    | 2.8     | 30    |
| Camden           | 7.8   | 11.9     | 26    | 6.5     | *6    |
| Catawba          | 3.3   | 4.1      | 25    | 2.5     | *4    |
| Chappells        | 5.2   | 16.8     | 25    | 2.8     | *1    |
| Cheraw           | 4.0   | 10.3     | 7     | 2.4     | *1    |
| Columbia         | 2.3   | 7.8      | 26    | 1.1     | 14    |
| Effingham        | 4.5   | 5.7      | 26    | 3.7     | 22    |
| Ferguson         | 9.1   | 12.7     | 30    | 8.0     | *4    |
| Kingstree        | 3.7   | 5.5      | *9    | 2.0     | *2    |
| Mt. Holly, N. C. | 2.0   | 3.0      | 5     | 1.8     | *1    |
| Pelzer           | 3.2   | 4.8      | 23    | 2.8     | 10    |
| Rimini           | 8.9   | 13.8     | 29    | 7.1     | *7    |
| Smiths Mills     | 5.8   | 8.6      | *10   | 4.0     | 25    |

\* On other dates also.

## Remarks by Observers.

*Beaufort*: The percentage of cloudiness was unusually high. No very high temperatures occurred. The last few days were remarkably cool. Thunderstorms occurred on nineteen days.—Miss E. G. RICE.

*Bowman*: The month was without marked temperature extremes and the precipitation was about normal. The thunderstorm on the 25th was unusually severe.—B. O. EVANS

*Liberty*: The month was wet, with favorable temperatures.—Jno. T. BOGGS.

*Santee*: There were numerous thunderstorms, but none were severe. The precipitation was poorly distributed, some portions of the county receiving an insufficient amount.—E. W. JETER.

*Summerville*: The relative humidity for the month averaged 83 per cent.—Miss E. H. GADSDEN.

## CLIMATOLOGY OF BLACKVILLE, S. C.

## Temperature.

| Year   | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|--------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| 1888.. |      |      |      |      |      |      |      | 79   | 71    | 60   |      |      |       |
| 1889.. |      |      |      |      | 73   | 78   | 81   | 77   | 74    | 62   | 56   |      |       |
| 1890.. |      |      |      |      | 73   | 83   | 81   | 79   | 74    | 64   | 59   |      |       |
| 1891.. |      |      |      |      | 71   | 82   | 79   | 80   | 75    | 61   | 54   |      |       |
| 1892.. |      |      |      |      | 74   | 79   | 80   | 81   | 73    | 65   | 55   |      |       |
| 1893.. |      |      |      | 69   | 73   | 78   | 83   | 80   | 77    | 66   | 55   |      |       |
| 1894.. |      |      |      |      | 73   | 79   | 80   | 80   | 76    | 65   | 53   | 50   |       |
| 1895.. | 46   | 38   | 55   | 63   | 70   | 80   | 82   | 80   | 77    | 61   | 53   | 45   | 62    |
| 1896.. | 43   | 48   | 52   | 68   | 78   | 80   | 83   | 82   | 76    | 64   | 60   | 44   | 65    |
| 1897.. | 44   | 52   | 58   | 63   | 71   | 82   | 82   | 79   | 74    | 68   | 57   | 48   | 65    |
| 1898.. | 51   | 47   | 61   | 59   | 75   | 81   | 81   | 80   | 76    | 65   | 53   | 47   | 65    |
| 1899.. | 46   | 45   | 57   | 61   | 76   | 80   | 81   | 82   | 75    | 66   | 57   | 47   | 64    |
| 1900.. | 46   | 46   | 56   | 65   | 71   | 78   | 82   | 84   | 79    | 69   | 58   | 47   | 64    |
| 1901.. | 46   | 45   | 55   | 57   | 73   | 79   | 83   | 81   | 76    | 64   | 52   | 47   | 63    |
| 1902.. | 44   | 43   | 56   | 63   | 77   | 80   | 84   | 80   | 74    | 66   | 60   | 48   | 64    |
| 1903.. | 44   | 50   | 62   | 62   | 72   | 76   | 81   | 82   | 74    | 63   | 53   | 41   | 63    |
| 1904.. | 41   | 46   | 58   | 61   | 72   | 79   | 82   | 79   | 76    | 64   | 53   | 47   | 63    |
| 1905.. | 42   | 40   | 60   | 65   | 76   | 81   | 83   | 80   | 79    | 66   | 56   | 45   | 64    |
| 1906.. | 49   | 48   | 54   | 67   | 72   | 82   | 81   | 83   | 80    | 62   | 56   | 47   | 65    |
| 1907.. | 55   | 49   | 66   | 59   | 73   | 79   | 84   | 82   | 77    | 63   | 54   | 50   | 66    |
| M'ns   | 46.0 | 45.9 | 57.8 | 63.0 | 73.4 | 79.8 | 81.8 | 80.5 | 75.7  | 64.2 | 55.4 | 46.7 | 64.2  |

## Precipitation.

| Year   | Jan. | Feb. | Mar. | Apr. | May  | June  | July | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l |
|--------|------|------|------|------|------|-------|------|-------|-------|------|------|------|-------|
| 1888.. |      |      |      |      |      |       |      | 6.76  | 8.52  | 4.48 |      |      |       |
| 1889.. |      |      |      |      | 1.78 | 6.60  | 6.52 | 5.66  | 3.52  | 2.17 | 2.80 |      |       |
| 1890.. |      |      |      |      | 7.86 | 1.66  | 7.71 | 1.98  | 8.71  | 4.29 | 0.80 |      |       |
| 1891.. |      |      |      |      |      | 2.70  | 5.51 | 9.00  | 2.40  | 0.85 | 2.18 |      |       |
| 1892.. |      |      |      |      | 6.51 | 6.03  | 4.60 | 5.84  | 4.11  | 0.87 | 1.89 |      |       |
| 1893.. |      |      |      | 1.06 | 3.50 | 6.07  | 3.31 |       | 2.73  | 3.87 | 1.70 |      |       |
| 1894.. |      |      |      |      | 2.78 | 2.86  | 8.18 | 9.31  | 7.69  | 3.65 | 1.92 | 2.22 |       |
| 1895.. | 7.70 | 4.37 | 5.91 | 3.78 | 4.22 | 2.83  | 6.73 | 9.70  | 0.11  | 2.25 | 1.34 | 2.89 | 51.83 |
| 1896.. | 2.38 | 8.26 | 1.60 | 2.04 | 1.51 | 5.61  | 6.70 | 2.74  | 1.12  | 0.40 | 1.43 | 4.71 | 38.55 |
| 1897.. | 2.53 | 7.82 | 5.64 | 2.98 | 4.28 | 5.62  | 3.79 | 5.24  | 4.07  | 1.34 | 1.09 | 1.76 | 46.12 |
| 1898.. | 1.37 | 0.52 | 2.63 | 6.77 | 1.13 | 3.82  | 8.45 | 7.17  | 4.67  | 3.25 | 5.05 | 3.33 | 48.14 |
| 1899.. | 5.01 | 6.53 | 2.04 | 2.36 | 1.70 | 8.55  | 3.41 | 7.91  | 2.51  | 9.63 | 2.53 | 2.59 | 54.77 |
| 1900.. | 1.73 | 3.99 | 3.57 | 5.87 | 2.99 | 9.00  | 6.63 | 2.21  | 3.19  | 4.80 | 2.28 | 7.80 | 51.60 |
| 1901.. | 3.80 | 3.42 | 3.59 | 3.91 | 7.42 | 6.34  | 2.97 | 4.33  | 2.32  | 0.78 | 1.07 | 4.17 | 44.12 |
| 1902.. | 0.36 | 5.06 | 4.98 | 3.21 | 1.11 | 6.91  | 2.48 | 5.12  | 4.47  | 4.88 | 2.25 | 4.82 | 46.55 |
| 1903.. | 3.07 | 3.78 | 3.47 | 4.29 | 5.18 | 7.84  | 1.77 | 5.89  | 3.47  | 2.16 | 1.65 | 2.31 | 45.38 |
| 1904.. | 2.53 | 4.08 | 4.11 | 0.63 | 1.86 | 4.87  | 1.07 | 7.83  | 3.17  | 0.68 | 2.78 | 2.39 | 36.00 |
| 1905.. | 1.10 | 8.20 | 2.50 | 4.01 | 3.12 | 2.41  | 4.13 | 3.81  | 0.21  | 1.33 | 1.28 | 7.38 | 39.57 |
| 1906.. | 3.88 | 3.14 | 4.08 | 1.05 | 5.45 | 11.38 | 7.80 | 10.83 | 2.65  | 2.04 | 0.90 | 2.36 | 55.56 |
| 1907.. | 0.74 | 4.41 | 0.59 | 4.50 | 5.67 | 7.29  | 4.80 | 4.05  | 10.02 | 0.50 | 3.70 | 4.78 | 51.05 |
| M'ns   | 2.79 | 4.96 | 3.44 | 3.32 | 3.84 | 5.74  | 5.12 | 6.07  | 3.96  | 2.71 | 2.03 | 3.72 | 47.70 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest monthly mean. | Year. | Lowest monthly mean. | Year. | Greatest monthly. | Year. | Least monthly. | Year. |
| January   | 55                    | 1907  | 41                   | 1904  | 7.70              | 1895  | 0.36           | 1902  |
| February  | 52                    | 1897  | 38                   | 1895  | 8.26              | 1896  | 0.52           | 1898  |
| March     | 66                    | 1907  | 52                   | 1896  | 5.91              | 1895  | 0.59           | 1907  |
| April     | 69                    | 1893  | 57                   | 1901  | 6.77              | 1898  | 0.63           | 1904  |
| May       | 78                    | 1896  | 70                   | 1895  | 7.86              | 1896  | 1.11           | 1902  |
| June      | 83                    | 1890  | 76                   | 1903  | 11.38             | 1906  | 1.66           | 1890  |
| July      | 84                    | *1902 | 79                   | 1891  | 8.45              | 1898  | 1.67           | 1904  |
| August    | 84                    | 1900  | 77                   | 1899  | 10.33             | 1906  | 1.98           | 1890  |
| September | 80                    | 1900  | 71                   | 1888  | 19.02             | 1907  | 0.11           | 1895  |
| October   | 69                    | 1900  | 60                   | 1888  | 9.63              | 1899  | 0.40           | 1896  |
| November  | 60                    | *1896 | 52                   | 1901  | 5.05              | 1898  | 0.80           | 1890  |
| December  | 50                    | *1894 | 41                   | 1903  | 7.80              | 1900  | 1.76           | 1897  |

\* And other years.

## COMPARATIVE JUNE DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |               |                |                  |    | Number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|---------------|----------------|------------------|----|--------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average.       | Greatest monthly. |               | Least monthly. |                  |    |                    |                            |
|           |              |               |               |          |          |                | Amount.           | Place.        | Amount.        | Place.           |    |                    |                            |
| 1894..... | 77.0         | 88.8          | 65.9          | 105      | 41       | 3.91           | 9.20              | McCormick.    | 0.25           | Kingstree.       | 8  | SW.                |                            |
| 1895..... | 78.2         | 89.0          | 68.2          | 105      | 50       | 3.04           | 7.04              | Camden.       | 0.25           | Shaw's Fork.     | 8  | SW.                |                            |
| 1896..... | 77.9         | 87.6          | 68.3          | 102      | 52       | 5.42           | 10.45             | Georgetown.   | 1.94           | Clemson College. | 12 | SW.                |                            |
| 1897..... | 79.2         | 89.9          | 68.8          | 103      | 47       | 5.44           | 11.75             | Pinopolis.    | 1.82           | Mt. Carmel.      | 12 | SW.                |                            |
| 1898..... | 79.7         | 91.5          | 67.9          | 105      | 55       | 4.15           | 10.68             | Pinopolis.    | 1.58           | Central.         | 8  | SW.                |                            |
| 1899..... | 79.4         | 90.5          | 68.3          | 105      | 48       | 3.89           | 8.55              | Blackville.   | 1.38           | Santee.          | 8  | SW.                |                            |
| 1900..... | 76.2         | 85.0          | 67.3          | 97       | 52       | 7.94           | 15.43             | Holland.      | 4.15           | Trenton.         | 14 | SW.                |                            |
| 1901..... | 76.7         | 86.0          | 67.4          | 102      | 48       | 6.55           | 11.92             | Pinopolis.    | 3.60           | Walhalla.        | 12 | SW.                |                            |
| 1902..... | 78.5         | 89.6          | 67.4          | 105      | 52       | 4.48           | 8.11              | Trenton.      | 1.39           | Cheraw.          | 9  | SW.                |                            |
| 1903..... | 74.2         | 84.1          | 64.2          | 96       | 42       | 8.09           | 18.42             | Stateburg.    | 3.95           | Due West.        | 14 | SW.                |                            |
| 1904..... | 77.0         | 88.7          | 65.4          | 102      | 48       | 4.06           | 11.17             | Effingham.    | 0.55           | Aiken.           | 8  | SW.                |                            |
| 1905..... | 78.9         | 89.9          | 67.9          | 101      | 43       | 1.92           | 6.30              | Walhalla.     | 0.17           | Little Mountain. | 6  | C.                 |                            |
| 1906..... | 78.4         | 88.5          | 68.2          | 102      | 52       | 8.88           | 16.13             | Smiths Mills. | 4.28           | Greenville.      | 12 | SW.                |                            |
| 1907..... | 75.4         | 86.1          | 64.8          | 99       | 47       | 5.92           | 12.38             | Darlington.   | 2.22           | Clemson College. | 10 | SW.                |                            |
| 1908..... | 76.6         | 86.9          | 66.4          | 100      | 48       | 4.90           | 9.10              | Walterboro.   | 1.08           | Smiths Mills.    | 9  | NE.                |                            |



## CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1908.

| STATIONS.                   | Counties.    | Elevation<br>feet. | Temperature in degrees Fahrenheit |       |          |         |          |         |        | Precipitation in inches       |                         |                                     |                    | Sky.                     |                    |                          |    | Observer. |    |                        |
|-----------------------------|--------------|--------------------|-----------------------------------|-------|----------|---------|----------|---------|--------|-------------------------------|-------------------------|-------------------------------------|--------------------|--------------------------|--------------------|--------------------------|----|-----------|----|------------------------|
|                             |              |                    | Latitude.                         | Mean. | Highest. | Lowest. | Wettest. | Driest. | Total. | Departure from<br>the normal. | Exceeded the<br>normal. | Total showing<br>falling barometer. | Number of<br>days. | Number partly<br>cloudy. | Number of<br>days. | Prevalence of<br>clouds. |    |           |    |                        |
| Aiken                       | Aiken        | 808                | 34                                | 77.8  | 1.1      | 88      | 30       | 3       | 8      | 35                            | 5.16                    | -1.06                               | 1.75               | 0                        | 7                  | 18                       | 12 | 6         | W. | C. T. Metcalf, M. D.   |
| Allendale                   | Barnwell     | 186                | 20                                | 78.2  | 1.2      | 88      | 20       | 62      | 2      | 32                            | 2.47                    | -1.97                               | 1.18               | 0                        | 4                  | 10                       | 4  | 10        | W. | A. R. Hiers.           |
| Anderson                    | Anderson     | 704                | 7                                 | 74.1  | -1.3     | 95      | 20       | 58      | 16     | 31                            | 1.08                    | -0.87                               | 1.04               | 0                        | 7                  | 19                       | 1  | 10        | W. | H. H. Russell.         |
| Augusta Ga.                 | Richmond     | 134                | 57                                | 77.6  | -0.8     | 93      | 20       | 63      | 2      | 37                            | 0.1                     | -1.28                               | 2.18               | 0                        | 11                 | 14                       | 8  | 3         | W. | Weather Bureau.        |
| Barksdale                   | Laurens      | 680                | 7                                 | 77.8  | 1.5      | 94      | 32       | 61      | 8      | 28                            | 3.52                    | -1.85                               | 1.02               | 0                        | 7                  | 16                       | 5  | 9         | S. | E. J. Garrett.         |
| Batesburg                   | Lexington    | 656                | 20                                | 76.8  | -0.7     | 91      | *10      | 65      | 24     | 21                            | 7.24                    | -2.22                               | 2.39               | 0                        | 10                 | 19                       | 20 | 6         | W. | Miss E. G. Rice.       |
| Beaufort                    | Beaufort     | 20                 | 22                                | 77.1  | 1.0      | 91      | 20       | 58      | 8      | 31                            | 1.50                    | 0.40                                | 0.46               | 0                        | 10                 | 17                       | 11 | 2         | S. | C. S. McCall.          |
| Bennettsville               | Marlboro     | 181                | 7                                 | 77.1  | 1.0      | 91      | 20       | 58      | 8      | 31                            | 1.50                    | 0.40                                | 0.46               | 0                        | 10                 | 17                       | 11 | 2         | W. | Miss M. E. Lange.      |
| Blackville                  | Barnwell     | 260                | 20                                | 77.1  | 1.0      | 91      | 20       | 58      | 8      | 31                            | 1.50                    | 0.40                                | 0.46               | 0                        | 10                 | 17                       | 11 | 2         | W. | T. S. McMeekin.        |
| Blacks                      | Fairfield    | 263                | 3                                 | 76.8  | 1.0      | 96      | 20       | 60      | 8      | 31                            | 4.69                    | 2.68                                | 0.80               | 0                        | 5                  | 24                       | 8  | 1         | W. | B. O. Evans.           |
| Bowman                      | Orangeburg   | 100                | 7                                 | 76.8  | 1.0      | 96      | 20       | 60      | 8      | 31                            | 4.69                    | 2.68                                | 0.80               | 0                        | 5                  | 24                       | 8  | 1         | W. | P. J. Phifer.          |
| Calhoun Falls               | Abbeville    | 508                | 18                                | 77.2  | 1.0      | 98      | 20       | 54      | 16     | 30                            | 3.92                    | -1.35                               | 1.84               | 0                        | 9                  | 15                       | 11 | 4         | W. | J. B. Mickle.          |
| Camden (1)                  | Kershaw      | 2                  | 2                                 | 77.2  | 1.0      | 98      | 20       | 54      | 16     | 30                            | 3.92                    | -1.35                               | 1.84               | 0                        | 9                  | 15                       | 11 | 4         | W. | W. C. Brown.           |
| Camden (2)                  | Kershaw      | 222                | 42                                | 77.2  | 1.0      | 98      | 20       | 54      | 16     | 30                            | 3.92                    | -1.35                               | 1.84               | 0                        | 9                  | 15                       | 11 | 4         | W. | Jas. C. Tarr.          |
| Catawba                     | York         | 3                  | 3                                 | 77.2  | 1.0      | 98      | 20       | 54      | 16     | 30                            | 3.92                    | -1.35                               | 1.84               | 0                        | 9                  | 15                       | 11 | 4         | W. | W. R. Zimmerman.       |
| Chapin                      | Newberry     | 402                | 3                                 | 77.2  | 1.0      | 98      | 20       | 54      | 16     | 30                            | 3.92                    | -1.35                               | 1.84               | 0                        | 9                  | 15                       | 11 | 4         | W. | Weather Bureau.        |
| Charleston                  | Charleston   | 48                 | 34                                | 78.3  | 0.2      | 92      | 1        | 69      | 7      | 21                            | 2.70                    | -2.69                               | 0.76               | 0                        | 10                 | 8                        | 10 | 3         | W. | Weather Bureau.        |
| Charlotte, N. C.            | Mecklenburg  | 808                | 30                                | 77.4  | 1.1      | 94      | 20       | 58      | 10     | 27                            | 2.65                    | -1.87                               | 0.92               | 0                        | 9                  | 8                        | 15 | 7         | W. | Weather Bureau.        |
| Cheraw (1)                  | Chesterfield | 144                | 20                                | 76.4  | 1.2      | 97      | 20       | 59      | 8      | 31                            | 4.19                    | -0.98                               | 1.50               | 0                        | 11                 | 13                       | 7  | 10        | W. | W. R. Godfrey.         |
| Cheraw (2)                  | Chesterfield | 87                 | 15                                | 76.4  | 1.2      | 97      | 20       | 59      | 8      | 31                            | 4.19                    | -0.98                               | 1.50               | 0                        | 11                 | 13                       | 7  | 10        | W. | Jno. H. Powe.          |
| Clarks Hill                 | Edgefield    | 800                | 6                                 | 76.0  | 0.8      | 98      | 20       | 57      | 8      | 33                            | 3.28                    | 0.73                                | 0.73               | 0                        | 7                  | 17                       | 11 | 2         | W. | Wm. S. Middleton.      |
| Clemson College             | Georgetown   | 850                | 17                                | 74.3  | 2.1      | 90      | 20       | 50      | 16     | 28                            | 4.84                    | 0.26                                | 1.30               | 0                        | 7                  | 17                       | 11 | 2         | S. | Jno. N. Hook.          |
| Columbia                    | Richland     | 351                | 21                                | 76.6  | 1.6      | 96      | 20       | 61      | 16     | 27                            | 4.21                    | +0.03                               | 2.17               | 0                        | 13                 | 8                        | 13 | 1         | W. | Central Office.        |
| Conway                      | Horry        | 25                 | 10                                | 76.6  | 0.6      | 96      | *1       | 50      | *28    | 30                            | 5.15                    | +0.29                               | 1.60               | 0                        | 12                 | 14                       | 7  | 9         | W. | P. C. Quattlebaum.     |
| Darlington                  | Darlington   | 175                | 13                                | 76.9  | 0.9      | 90      | 21       | 57      | 9      | 35                            | 4.05                    | 2.00                                | 1.43               | 0                        | 6                  | 13                       | 13 | 1         | W. | D. C. McCall.          |
| Dillon                      | Marion       | 100                | 4                                 | 76.8  | 0.8      | 98      | 20       | 54      | 29     | 38                            | 5.55                    | 1.34                                | 0.13               | 0                        | 13                 | 13                       | 13 | 1         | W. | A. E. Rowell.          |
| Edgingham                   | Florence     | 100                | 10                                | 76.8  | 0.8      | 98      | 20       | 54      | 29     | 38                            | 5.55                    | 1.34                                | 0.13               | 0                        | 13                 | 13                       | 13 | 1         | W. | H. B. McCall.          |
| Ferguson                    | Berkeley     | 51                 | 1                                 | 76.8  | 0.0      | 100     | 20       | 50      | 8      | 34                            | 3.43                    | -2.32                               | 1.20               | 0                        | 9                  | 20                       | 2  | 8         | W. | D. B. Gilliland, jr.   |
| Florynce                    | Florence     | 130                | 20                                | 78.6  | 0.0      | 100     | 20       | 50      | 8      | 34                            | 3.43                    | -2.32                               | 1.20               | 0                        | 9                  | 20                       | 2  | 8         | W. | H. K. Gilbert.         |
| Georgetown                  | Georgetown   | 12                 | 15                                | 77.4  | 1.2      | 94      | 22       | 08      | 47     | 22                            | 2.55                    | 3.18                                | 0.80               | 0                        | 6                  | 10                       | 19 | 1         | W. | Wm. Alden James.       |
| Greenville                  | Greenville   | 68                 | 16                                | 73.4  | +0.1     | 90      | *30      | 58      | 10     | 26                            | 4.56                    | 0.61                                | 1.30               | 0                        | 12                 | 20                       | 2  | 8         | W. | Mrs. S. A. Crittenden. |
| Greenwood                   | Greenwood    | 71                 | 20                                | 76.0  | 2.2      | 94      | 20       | 59      | 8      | 27                            | 6.13                    | +2.78                               | 2.18               | 0                        | 7                  | 21                       | 0  | 9         | W. | M. M. Calhoun.         |
| Heath Springs               | Lancaster    | 568                | 7                                 | 77.6  | 1.0      | 100     | 20       | 60      | 6      | 32                            | 5.08                    | 2.17                                | 0.12               | 0                        | 12                 | 14                       | 13 | 3         | W. | J. A. Weaver.          |
| Jacksonboro                 | Colleton     | 13                 | 0                                 | 76.8  | 0.1      | *1      | 61       | 21      | 21     | 21                            | 8.13                    | 1.93                                | 0.14               | 0                        | 14                 | 8                        | 13 | 9         | W. | W. E. Haskell, jr.     |
| Kingstree (1)               | Williamsburg | 54                 | 20                                | 77.1  | 1.0      | 93      | 20       | 63      | 20     | 21                            | 6.54                    | +1.38                               | 3.50               | 0                        | 8                  | 20                       | 3  | 7         | W. | J. A. Scott.           |
| Kingstree (2)               | Williamsburg | 50                 | 14                                | 77.1  | 1.0      | 93      | 20       | 63      | 20     | 21                            | 6.54                    | +1.38                               | 3.50               | 0                        | 8                  | 20                       | 3  | 7         | W. | A. O. Matthews.        |
| Liberty                     | Pickens      | 900                | 14                                | 75.4  | 1.2      | 94      | 20       | 48      | 8      | 41                            | 5.06                    | +0.50                               | 1.04               | 0                        | 14                 | 14                       | 14 | 2         | W. | Jno. T. Boggs.         |
| Little Mountain             | Newberry     | 630                | 15                                | 76.1  | 2.2      | 95      | 20       | 60      | *8     | 28                            | 3.48                    | 0.95                                | 0.93               | 0                        | 9                  | 14                       | 9  | 7         | W. | John M. Sease, M. D.   |
| Newberry                    | Newberry     | 502                | 4                                 | 77.1  | 0.6      | 97      | 20       | 58      | 8      | 34                            | 5.70                    | +1.37                               | 1.80               | 0                        | 12                 | 9                        | 12 | 9         | W. | W. G. Peterson.        |
| Pelzer                      | Anderson     | 873                | 3                                 | 77.1  | 0.6      | 97      | 20       | 58      | 8      | 34                            | 5.70                    | +1.37                               | 1.80               | 0                        | 12                 | 9                        | 12 | 9         | W. | John M. Ward.          |
| Pinopolis                   | Berkeley     | 54                 | 15                                | 75.9  | 0.3      | 88      | *1       | 64      | 29     | 29                            | 4.40                    | -2.99                               | 1.56               | 0                        | 8                  | 10                       | 10 | 10        | W. | E. P. Ravenel.         |
| St. George                  | Dorchester   | 103                | 20                                | 78.9  | +0.7     | 92      | 20       | 60      | 29     | 21                            | 7.83                    | +2.41                               | 2.60               | 0                        | 10                 | 23                       | 0  | 7         | W. | G. T. Lewis.           |
| St. Matthews                | Calhoun      | 269                | 20                                | 75.2  | 3.0      | 94      | 20       | 62      | *6     | 25                            | 8.00                    | +1.78                               | 3.82               | 0                        | 10                 | 25                       | 0  | 5         | W. | J. S. Wannamaker.      |
| Saluda                      | Saluda       | 536                | 6                                 | 76.6  | 0.8      | 99      | 22       | 57      | 8      | 35                            | 5.44                    | 2.00                                | 0.9                | 0                        | 9                  | 20                       | 5  | 5         | W. | Alvin Etheridge.       |
| Santee                      | Union        | 512                | 14                                | 75.7  | 0.8      | 99      | 20       | 58      | 10     | 33                            | 4.47                    | +0.54                               | 2.00               | 0                        | 9                  | 9                        | 15 | 6         | W. | E. W. Jeter.           |
| Savannah, Ga.               | Chatham      | 71                 | 31                                | 78.6  | +0.4     | 92      | 1        | 67      | 9      | 23                            | 4.59                    | -1.44                               | 1.48               | 0                        | 9                  | 8                        | 19 | 3         | W. | Weather Bureau.        |
| Smiths Mills                | Williamsburg | 12                 | 13                                | 75.7  | 0.8      | 99      | 20       | 58      | 10     | 33                            | 4.47                    | +0.54                               | 2.00               | 0                        | 9                  | 9                        | 15 | 6         | W. | W. G. Walker.          |
| Society Hill                | Darlington   | 192                | 17                                | 76.0  | 1.3      | 94      | 20       | 61      | *7     | 26                            | 5.11                    | 0.62                                | 2.18               | 0                        | 10                 | 17                       | 6  | 7         | W. | J. J. Lucas.           |
| Spartanburg                 | Spartanburg  | 875                | 17                                | 75.8  | 1.3      | 98      | 20       | 55      | 16     | 32                            | 4.20                    | -0.50                               | 2.39               | 0                        | 7                  | 14                       | 2  | 13        | W. | F. P. Robinson.        |
| Stateburg                   | Sumter       | 500                | 31                                | 77.0  | 1.0      | 98      | 20       | 55      | 16     | 32                            | 4.20                    | -0.50                               | 2.39               | 0                        | 7                  | 14                       | 2  | 13        | W. | W. W. Anderson, M. D.  |
| Summerville                 | Dorchester   | 75                 | 11                                | 77.0  | +0.3     | 94      | 1        | 60      | 29     | 29                            | 5.91                    | +0.18                               | 1.36               | 0                        | 14                 | 7                        | 19 | 4         | W. | Miss E. H. Gadsden.    |
| Trenton                     | Edgefield    | 620                | 15                                | 75.1  | 3.6      | 95      | 20       | 62      | *10    | 27                            | 3.12                    | 1.65                                | 1.03               | 0                        | 5                  | 8                        | 20 | 2         | W. | C. A. Long.            |
| Trials                      | Berkeley     | 85                 | 22                                | 75.4  | 0.2      | 97      | 21       | 59      | 29     | 29                            | 5.52                    | 0.24                                | 1.58               | 0                        | 11                 | 3                        | 23 | 4         | W. | Etsell Gaillard.       |
| Walterboro                  | Colleton     | 69                 | 5                                 | 77.1  | 1.0      | 94      | 1        | 60      | 29     | 29                            | 5.91                    | +0.18                               | 1.36               | 0                        | 10                 | 7                        | 15 | 5         | W. | J. A. Westerberg.      |
| Wilmington, N. C.           | New Hanover  | 52                 | 39                                | 75.1  | 0.4      | 93      | 21       | 60      | 28     | 25                            | 5.39                    | 0.23                                | 1.92               | 0                        | 12                 | 11                       | 14 | 5         | W. | Weather Bureau.        |
| Windsboro                   | Fairfield    | 545                | 19                                | 76.6  | 0.2      | 94      | 21       | 60      | 16     | 25                            | 4.36                    | 0.16                                | 1.27               | 0                        | 9                  | 12                       | 18 | 0         | W. | John W. Seigler.       |
| Winthrop College            | York         | 690                | 9                                 | 76.1  | 0.2      | 97      | 20       | 58      | 16     | 28                            | 4.00                    | 1.21                                | 0.10               | 0                        | 10                 | 16                       | 10 | 4         | W. | E. R. Rivers.          |
| Yemassee                    | Beaufort     | 23                 | 13                                | 77.3  | 2.3      | 92      | 23       | 62      | 29     | 27                            | 8.16                    | +2.22                               | 2.56               | 0                        | 11                 | 19                       | 4  | 7         | W. | J. G. Hutson.          |
| Yorkville                   | York         | 680                | 20                                | 77.3  | 2.3      | 92      | 23       | 62      | 29     | 27                            | 8.16                    | +2.22                               | 2.56               | 0                        | 11                 | 19                       | 4  | 7         | W. | J. R. Shorb.           |
| Means, extremes, and dates. |              |                    |                                   | 76.6  | 1.1      | 100     | 20       | 48      | 8      | 41                            | 4.90                    | 0.34                                | 3.82               | 0                        | 9                  | 13                       | 13 | 4         | W. |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a, indicates 1 day missing; b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JUNE, 1908.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs.



TOTAL PRECIPITATION FOR JUNE, 1908.



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JUNE, 1908.

| STATIONS.             | DAY OF MONTH. |      |      |         |      |      |     |   |        |      |         |      |     |      |        |      |      |      |     |      |      |         |         |      |      |      |     |     |     |      |    | Total. |
|-----------------------|---------------|------|------|---------|------|------|-----|---|--------|------|---------|------|-----|------|--------|------|------|------|-----|------|------|---------|---------|------|------|------|-----|-----|-----|------|----|--------|
|                       | 1             | 2    | 3    | 4       | 5    | 6    | 7   | 8 | 9      | 10   | 11      | 12   | 13  | 14   | 15     | 16   | 17   | 18   | 19  | 20   | 21   | 22      | 23      | 24   | 25   | 26   | 27  | 28  | 29  | 30   | 31 |        |
| Aiken.....            |               |      |      |         |      | .30  |     |   |        | .50  |         |      |     |      |        |      | 1.15 |      |     |      | .11  |         | 1.75    |      | 1.05 | .30  |     |     |     |      |    | 5.16   |
| Allendale*.....       |               |      |      |         |      | 1.18 | .18 |   |        |      |         |      |     |      |        |      |      |      |     |      |      |         | .40     |      | .63  |      |     |     |     |      |    | 2.39   |
| Anderson.....         |               |      |      |         |      | .78  |     |   |        | .64  |         | .12  |     | 1.04 |        | .58  |      |      |     | .30  |      | .59     |         |      |      |      |     |     |     |      |    | 4.05   |
| Augusta, Ga.....      |               | .12  |      | 2.18    | .05  | .26  |     |   |        | .16  |         |      |     | 2.74 |        | .04  |      |      |     | T.   | .14  |         | 1.27    | .10  | .45  |      |     |     |     |      |    | 6.91   |
| Barksdale.....        |               |      |      |         |      |      |     |   |        |      |         |      |     |      |        |      |      |      |     |      |      |         |         |      |      |      |     |     |     |      |    |        |
| Batesburg*.....       |               |      |      |         | .51  | T.   |     |   |        | .28  |         |      |     |      | .30    |      | .03  |      |     |      | T.   |         | 1.02    | .41  | .97  |      |     |     |     |      |    | 3.52   |
| Beaufort.....         |               |      |      | T. 2.39 | .89  | .09  |     |   |        | .70  | .42     | .41  |     |      |        | .85  |      |      |     | T.   |      |         | .37     | .50  |      |      |     |     | .61 |      |    | 7.23   |
| Bennettsville.....    |               | .08  | .03  |         | .18  |      |     |   |        | .10  | .29     |      |     |      | .22    |      |      |      |     | .11  |      | .33     |         | .46  | .66  |      |     |     |     |      |    | 1.66   |
| Blackville*.....      |               |      |      | .12     | .11  |      |     |   |        | .20  | .04     |      |     | .16  |        | .27  |      |      |     |      | .26  |         | .45     |      | 1.00 |      |     |     |     |      |    | 2.61   |
| Blairs*.....          |               | .30  |      | .24     |      | .04  |     |   |        | .14  |         |      |     | .50  | .40    |      |      |      |     |      | .60  | .36     | .60     | .20  | .80  |      |     |     |     |      |    | 4.18   |
| Bowman.....           |               |      |      |         |      |      |     |   |        | .08  | T. 1.36 |      |     | T.   |        |      |      | T.   | T.  |      | .15  |         | .42     | 2.68 |      |      |     |     |     |      |    | 4.09   |
| Calhoun Falls*.....   |               |      |      |         | .49  | .13  |     |   |        | .47  |         |      |     | .74  |        |      | .82  |      |     |      | .96  | .27     | .79     | .81  |      |      |     |     |     |      |    | 5.48   |
| Camden (1).....       |               |      | .14  |         |      | .02  |     |   | T.     | .08  | T.      |      |     | .05  |        | .08  |      |      |     | 1.59 | .78  | .10     |         | 1.68 | .02  |      |     |     |     |      |    | 3.02   |
| Camden (2)*.....      |               |      |      | .28     |      |      |     |   |        |      | .06     |      |     |      |        | .08  |      |      |     |      | .44  |         |         |      | 1.94 | .18  |     |     |     |      |    | 2.88   |
| Catawba*.....         |               | .12  |      |         |      |      |     |   |        |      |         | .22  |     |      |        | .42  |      |      |     |      | 1.12 |         | .10     |      |      |      |     |     |     |      |    | 2.42   |
| Chappells*.....       |               |      |      | .84     |      |      |     |   |        |      | .12     |      |     |      | .70    |      | .50  |      |     |      | .50  | .96     | .76     | .56  |      |      |     |     |     |      |    | 4.94   |
| Charleston.....       |               | T.   | T.   | T.      | .33  | .40  |     |   |        | .49  | .22     | .18  |     |      | .20    |      | .02  |      |     | .09  | .01  |         |         | .76  |      |      |     |     |     |      |    | 2.70   |
| Charlotte, N. C.....  |               | T.   | T.   | T.      | .09  | .20  | .07 |   |        | .06  |         |      |     | .89  | .14    |      | T.   |      |     | .62  |      | .53     |         | .05  |      |      |     |     |     |      |    | 2.03   |
| Cheraw (1)*.....      |               | .09  | .20  |         | .06  | .01  |     |   |        | .43  | .85     |      |     |      | .30    |      |      |      |     | .47  |      | .10     |         | .12  | 1.56 | T.   |     |     |     |      |    | 4.19   |
| Cheraw (2)*.....      |               | .09  | .22  |         | .06  | .04  |     |   |        | .28  | .90     |      |     |      | T. .85 |      |      |      |     | .56  | T.   |         | .10     |      | 1.70 | T.   |     |     |     |      |    | 4.36   |
| Clarks Hill.....      |               |      | .51  | .08     | T.   |      |     |   |        | T.   |         |      |     | .49  | .68    |      |      |      |     | .73  |      | .63     |         | .16  |      |      |     |     |     |      |    | 3.28   |
| Clemson College.....  |               |      |      | .85     |      |      |     |   |        | .16  | 1.12    |      |     | 1.36 |        | .40  |      |      |     | .84  |      | .06     |         |      |      |      |     |     |     |      |    | 4.84   |
| Columbia.....         |               | .17  | .02  | .36     | T.   | .01  |     |   |        | .49  | T.      |      |     | .33  |        | .04  |      |      |     | .32  | .08  |         | .08     | 2.00 | .17  | .14  |     |     |     |      |    | 4.21   |
| Conway*.....          |               |      | .22  |         | 1.60 | .42  | .03 |   |        | .20  | .01     | .10  | .06 |      |        | .05  |      |      |     | .10  |      | .17     | .05     |      | .45  |      |     |     |     |      |    | 5.15   |
| Darlington.....       | T.            |      |      | 1.43    | .14  |      |     |   |        | T.   | .20     |      |     |      |        |      |      |      |     | T.   |      | .16     | 1.25    |      | .87  |      |     |     |     |      |    | 4.95   |
| Dillon.....           |               |      | .28  | .53     | 1.34 | .08  |     |   |        | .12  | .90     | .01  | T.  |      | .01    |      |      |      |     | .29  | .10  |         | T. 1.20 |      |      |      |     | .59 |     |      |    | 5.55   |
| Effingham*.....       |               |      |      | .50     | .60  | T.   |     |   |        | .50  | 2.50    | .10  |     |      |        |      |      |      |     | .60  |      | 1.30    | .40     |      | 2.30 |      |     |     |     |      |    | 8.80   |
| Ferguson*.....        |               |      | .03  | .41     | 2.65 | .42  |     |   |        | .45  | 1.95    |      |     |      |        |      |      |      |     |      | 1.45 |         |         |      |      |      |     |     |     |      |    | 8.11   |
| Florence*.....        |               |      | .60  |         |      | .06  |     |   |        | .15  | .60     |      |     |      |        |      |      |      |     |      | .28  |         | .16     | .25  |      | 1.20 |     |     |     |      |    | 3.43   |
| Georgetown.....       |               |      |      | T.      | .39  |      |     |   |        | T.   | .66     |      |     | .10  | 1.15   |      | T.   | .06  |     | T.   | .80  |         | .12     | .78  | .30  | .29  | .54 | T.  |     |      |    | 4.55   |
| Greenville*.....      |               |      |      | .18     | .04  | .10  |     |   |        | .15  |         |      |     | .10  | 1.15   |      | T.   | .05  |     | .12  | .78  | .30     | .29     | .54  | T.   |      |     |     |     |      |    | 4.50   |
| Greenwood*.....       |               |      |      | .50     |      |      |     |   |        |      |         |      |     | .20  |        |      | 1.80 |      |     | .15  | .10  |         | .48     | .10  |      |      |     |     |     |      |    | 9.23   |
| Heath Springs.....    | .49           |      | .12  |         |      |      |     |   |        | .07  | .04     |      |     | .38  | .60    |      | .02  | .13  |     | 1.06 | .02  | .03     | .01     |      | .47  |      |     |     |     |      |    | 8.13   |
| Jacksonboro.....      |               |      |      | 1.93    | .10  | .22  |     |   |        | .21  | .94     | 1.63 |     |      |        |      |      |      |     | .28  |      | .16     | T.      | .26  | 1.40 | .10  |     |     | .01 |      |    | 0.54   |
| Kingstree (1)*.....   |               |      |      | .08     | 3.50 | .23  |     |   |        | 1.03 | .06     |      |     |      |        |      |      |      |     | .25  | T.   | .38     | .25     | .95  |      |      |     |     |     |      |    | 0.13   |
| Kingstree (2)*.....   |               |      |      | T. 3.00 | .25  |      |     |   |        | 1.00 | .05     |      |     |      |        |      |      |      |     |      |      |         |         |      |      |      |     |     |     |      |    | 5.06   |
| Liberty.....          |               | .10  | T.   | .60     | T.   | .02  |     |   | T. .04 | .36  | T.      | .15  | .80 |      | .12    | .02  |      |      |     | .20  | .60  | .40     | .1.     | .35  |      |      |     |     |     |      |    | 3.48   |
| Little Mountain.....  |               | .24  | .30  |         | .03  |      |     |   |        | .42  |         |      |     | .10  | .13    |      |      |      |     | .41  |      | .93     |         | .92  |      |      |     |     |     |      |    | 5.79   |
| Newberry.....         | .01           |      | .20  |         | .04  |      |     |   |        | .71  |         |      | .55 | .21  |        | .15  |      |      | .23 | .95  | .88  | .87     |         | 1.80 |      |      |     |     |     |      |    | 5.79   |
| Pelzer*.....          |               |      | T.   | .10     | .08  | T.   |     |   |        | .10  | .72     | .30  |     | .68  | .66    |      | .06  | .40  |     | .10  | .34  | 2.00    | .18     | .04  | .06  |      |     |     |     |      |    | 5.85   |
| Pinopolis.....        |               | .04  |      | .60     | .40  |      |     |   |        | .40  | .30     |      |     |      |        |      |      |      |     |      |      |         |         | .50  |      | .60  |     |     |     | 1.50 |    | 4.40   |
| St. George*.....      |               |      | 1.17 | 2.00    | .27  |      |     |   | .02    | .96  | .67     |      |     |      |        |      |      | .01  |     | 1.04 | .12  |         |         |      |      |      | .97 |     |     |      |    | 7.85   |
| St. Matthews*.....    |               |      | .18  | .22     | .08  |      |     |   |        | .20  | 1.85    |      |     |      |        |      |      |      |     |      | .40  |         |         |      |      | 1.10 | .05 |     |     |      |    | 8.00   |
| Saluda.....           |               |      | .04  | .01     |      |      |     |   |        | .16  |         |      |     | .28  | .20    | 2.00 |      |      |     |      |      |         |         |      |      |      |     |     |     |      |    | 5.44   |
| Santee.....           |               |      | T.   |         | T.   |      |     |   | T.     | .34  | .21     |      |     | .08  | .30    |      | .05  |      |     | .78  | 1.31 | T.      | .37     |      | .06  |      |     |     |     |      |    | 4.47   |
| Savannah, Ga.....     |               |      | 1.44 | .08     |      |      |     |   |        | .20  | .17     | T.   |     | T.   |        | .80  | .20  |      |     |      |      |         |         |      |      |      |     |     |     |      |    | 4.57   |
| Smiths Mills*.....    |               | .01  |      |         | .02  | .10  | T.  |   |        | .18  | .04     | .20  |     |      |        |      |      |      |     | .17  | T.   | .12     |         |      | .08  | .07  |     |     |     |      |    | 1.08   |
| Society Hill.....     |               | 2.10 | .05  |         |      |      |     |   |        | .30  | T.      |      | .28 | .50  |        |      |      |      |     |      | .05  | .39     | T.      |      |      |      |     |     |     |      |    | 5.03   |
| Spartanburg*.....     |               |      | .63  | .05     |      |      |     |   |        |      |         |      |     | .28  | .50    |      |      |      |     |      |      |         |         |      |      |      |     |     |     |      |    | 1.20   |
| Stateburg.....        |               |      |      |         |      |      |     |   |        |      |         |      |     |      |        |      |      |      |     |      |      |         |         |      |      |      |     |     |     |      |    |        |
| Summerville.....      |               | .90  |      | .86     | .18  | .02  |     |   | T.     | .10  | .56     | .08  | .19 |      |        |      | 1.36 |      |     | .08  |      | .03     | .31     | 1.23 | T.   |      |     |     |     |      |    | 5.01   |
| Trenton.....          |               | .51  |      |         |      |      |     |   |        | .41  |         |      |     | .38  |        |      | .79  |      |     |      | T.   | T. 1.03 |         |      |      |      |     |     |     |      |    | 3.12   |
| Trial.....            |               | .80  | .20  | 1.58    | .08  |      |     |   |        | .19  | .80     |      |     |      |        |      |      |      |     | .34  | .73  | T.      |         | .01  | .66  |      |     |     |     |      |    | 5.24   |
| Walterboro.....       | 1.05          |      |      | 2.61    | .10  |      |     |   |        | 1.65 |         |      |     |      |        | 1.55 | .09  |      |     |      | .52  |         | .83     |      | .40  |      |     |     |     |      |    | 6.10   |
| Wilmington, N. C..... |               | .04  | .17  | .62     | T.   |      |     |   |        | .02  | 1.59    | .25  |     |      | .10    |      |      |      | .01 |      | .51  | T.      |         | 1.83 | .09  |      |     |     |     |      |    | 5.37   |
| Winnboro.....         |               | .40  | .48  | T.      |      |      |     |   | T.     | .28  | T.      | .05  | .58 | .23  |        |      |      |      |     | 1.27 | .73  |         |         | .34  |      |      |     |     |     |      |    | 4.30   |
| Winthrop College..... |               | .66  | .02  | T.      |      |      |     |   |        | .08  | .33     |      | .09 | .30  |        | T.   |      |      |     | T.   | .68  | T.      | .17     |      | .40  | 1.21 |     |     |     |      |    | 4.00   |
| Yemassee*.....        |               | T.   | 1.07 | .81     | .33  |      |     |   |        | 2.56 | .15     |      |     |      | .05    |      |      | 1.79 | .18 | T.   |      |         |         |      | .74  | .40  |     |     |     |      |    | 8.10   |
| Yorkville.....        |               |      |      |         |      |      |     |   |        |      |         |      |     |      |        |      |      |      |     |      |      |         |         |      |      |      |     |     |     |      |    |        |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JULY, 1908

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

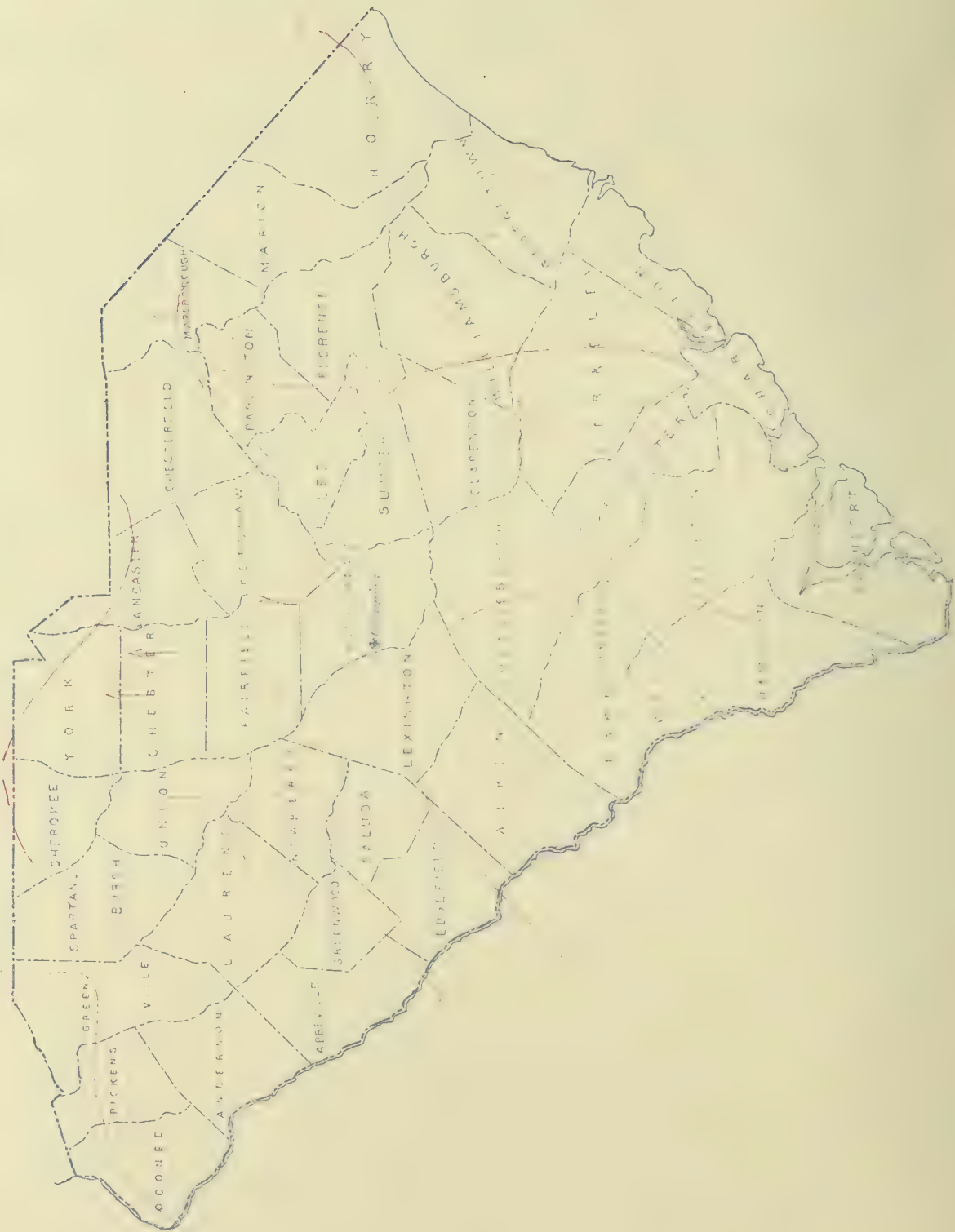


PITTSBURG, PA.  
WEATHER BUREAU OFFICE

SEPTEMBER 14, 1908

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JULY, 1908.

Map of Florida





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

Vol. XI.

COLUMBIA, S. C., JULY, 1908.

No. 7.

## GENERAL SUMMARY.

Except a few days in the second decade, the daily mean temperature was slightly below the normal each day, the precipitation was generally ample and well distributed, tho deficient over a large area in the south-central portion, and the sunshine was approximately normal. Compared with previous years the month was slightly cooler than the average July, tho the mean temperature was lower in 1894, 1904, and 1906. The average precipitation was more than in eight years since 1894. The wettest years were 1894, 1896 and 1906, when the average precipitation was over eight inches. The driest years were 1902 and 1903, when the average was less than four inches.

The monthly mean temperature was about 4° higher on the coast than in the mountain districts, and was quite uniform over the State generally. The greatest departures above the normal occurred on the 12th-16th, and 18th-22d, inclusive, tho the highest maximum occurred on the 31st. Comparatively low temperatures prevailed from the 9th to the 12th, inclusive, and on the 29th and 30th. The extremes for the month were well within previous records.

Moderate to comparatively large deficiencies in precipitation occurred over a large area in the central counties, where the monthly amounts were generally less than four inches and in places less than two inches. It was also deficient on the immediate coast, in the vicinity of Charleston, where less than three inches fell. Over the northeastern counties, particularly in that portion bordering North Carolina, the rainfall was heavy, exceeding ten inches over a considerable area. The ten most westerly counties received about a normal, well distributed rainfall.

## TEMPERATURE.

The mean temperature was 79.8°, which is 0.3° below the normal. The highest local mean was 81.4°, at Charleston; the lowest was 76.9°, at Greenville. The monthly extremes of temperature were 100°, at Blackville, on the 31st, and 60°, at Liberty and Spartanburg, on the 10th, making the State range 40°. The greatest local monthly range was 38°, at Santuc and Spartanburg; the least was 25°, at St. Matthews. The mean of the daily maximum temperatures was 89.2°, and of the daily minimum temperatures; 70.3°, making the average daily range 18.9°.

## PRECIPITATION.

The average precipitation was 5.43 inches, which is 0.42 of an inch below the normal. The greatest local monthly amount was 11.15 inches, at Conway; the least was 1.83 inches, at Aiken. The greatest 24-hour rainfall was 4.82 inches, at Conway, on the 8th-9th. The average number of days with rain was 12, ranging from 4 days at Aiken to 18 days at Walterboro.

EXCESSIVE PRECIPITATION. At Batesburg, on the 14th, 1.06 inches in 35 minutes; at Camden (1), on the 2d-3d, 3.36 inches in 24 hours; at Chappells, on the 8th-9th, 4.74 inches in 4 hours and 30 minutes; at Clemson College, on the 4th, 2.90 inches in 24 hours; at Conway, on the 8th-9th, 4.82 inches in 18 hours; at Effingham, on the 8th-9th, 3.34 inches in 20 hours; at Georgetown, on the 8th, 3.30 inches in 24 hours; at Liberty, on the 4th, 3.50 inches in 24 hours; at Newberry, on the 4th, 3.60 inches in 24 hours; at Spartanburg, on the 4th-5th, 2.57 inches in 4 hours and 40 minutes.

## WIND.

The prevailing direction of the wind was south at 14 stations, southwest at 9 stations, east and southeast at 6 stations each, west at 4 stations, northeast at 3 stations, and north at 2 stations.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 12, of partly cloudy days 13, and of cloudy days 6.

## MISCELLANEOUS PHENOMENA.

RAINBOW.—At Beaufort on the 15th.

PARHELIA.—At Liberty on the 9th, 24th.

SOLAR HALOS.—At Liberty on the 4th, 25th.

HAIL.—At Little Mountain on the 8th; at Spartanburg on the 22d.

LUNAR HALOS.—At Charleston on the 7th, 10th, 12th; at Liberty on the 6th.

DENSE FOGS.—At Bowman and Society Hill on the 21st; at Liberty on the 7th; at Trial on the 21st, 22d.

RELATIVE HUMIDITY.—The percentage of relative humidity for the month at Summerville was 82.

HIGH WINDS.—At Bowman and Georgetown on the 29th, 30th; at Cheraw, Jacksonboro, and Society Hill on the 30th; at Charleston on the 26th; at Columbia on the 13th; at Liberty on the 24th; at Smiths Mills on the 31st; at Summerville on the 26th, 30th; at Trial on the 3d, 26th, 30th.

THUNDERSTORMS.—Thunderstorms occurred on thirty days. The periods of maximum frequency were on the 1st-5th, 8th-9th, 12th-15th, 18th, 20th-29th, when from three to ten of the nineteen stations that recorded thunderstorms reported their occurrence. They were comparatively infrequent on the 6th-7th, 10th-11th, 16th-17th, 19th, and 31st. None occurred on the 30th.

## Errata.

The following corrections should be made in the June, 1908, Monthly Report, namely, on page 45, at Santuc, the lowest temperature, 58, should be 57; at St. George, the greatest 24-hour precipitation, 2.60, should be 2.87.

BAROMETER AND WIND TABLE FOR JULY, 1908.

| STATIONS.         | Barometer. |          |       |         |       | Wind.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.05      | 30.28    | 6     | 29.87   | 1     | 4.81            | 6.2             | 38                | hw.        | 10    |
| Charleston        | 30.05      | 30.27    | 6     | 29.73   | 2     | 20.52           | 11.7            | 37                | o.         | 26    |
| Charlotte, N. C.  | 30.08      | 30.41    | 6     | 29.99   | *18   | 4.73            | 7.2             | 26                | sw.        | 4     |
| Columbia          | 30.06      | 30.42    | 6     | 29.87   | 11    | 4.68            | 6.2             | 2                 | ne.        | 18    |
| Savannah, Ga.     | 30.06      | 30.47    | 6     | 29.88   | 10    | 5.16            | 6.9             | 2                 | sw.        | 18    |
| Wilmington, N. C. | 30.04      | 30.42    | 6     | 29.14   | 29    | 6.12            | 8.2             | 48                | ne.        | 30    |
| Averages.....     | 30.06      | 30.42    | 6     | 29.14   | 29    | 5.88            | 7.5             | 18                | ne.        | 30    |

\*And west. †And east, on 18th.

RIVER GAGE READINGS, JULY, 1908.

| Stations.          | Mean. | Highest. | Date. | Lowest. | Date. |
|--------------------|-------|----------|-------|---------|-------|
| Blairs             | 1.1   | 8.0      | 6     | 0.6     | 1     |
| Calhoun Falls..... | 1.1   | 1.1      | 1     | 2.4     | 31    |
| Camden             | 10.4  | 22.5     | 6     | 8       | 1     |
| Catawba            | 4.8   | 10.2     | 6     | 2.6     | 4     |
| Chapells           | 4.9   | 14.8     | 6     | 2.5     | 26    |
| Cheraw             | 1.4   | 11.1     | 6     | 2       | 23    |
| Columbia           | 5     | 8.5      | 6     | 0.9     | 1     |
| Edgington          | 4.8   | 7.5      | 1     | 1.7     | 1     |
| Ferguson           | 11.4  | 13       | 11    | 7.7     | 31    |
| Kingstree          | 1.4   | 1.4      | 1     | 1       | 1     |
| Mt. Holly, N. C.   | 2.8   | 2.8      | 1     | 1       | 1     |
| Perzer             | 8     | 8        | 1     | 1       | 1     |
| Rimini             | 1.7   | 1.7      | 1     | 1       | 1     |
| Smiths Mills       | 8.5   | 1.5      | 1     | 1       | 1     |

\*On other dates also.

## Remarks by Observers.

*Beaufort:* The third week was very warm and sultry, the mean maximum for the week being 90. Miss L. G. Rice.

*Burman:* There were no excessive or heavy rains during the month, tho the soil was kept well supplied with moisture by frequent light showers. B. O. Evans.

*Chicks Hill:* There was an excess of rain during the first half of the month, but, unfortunately, the record was lost. W. S. Middleton.

*Liberty:* Clear, hot weather from the 16th to the 25th, inclusive, was damaging. Jno. T. Boes.

*Santee:* A beneficial rain fell during the first and third decades; the second decade was dry and hot, and the light showers that fell extended over very limited areas. E. W. Jure.

*Trenton:* The precipitation was very deficient for the month, and the total rainfall since January is 4.61 in less than the normal for this season. C. A. Lutz.

CLIMATOLOGY OF CHERAW, S. C.  
Temperature.

| Year   | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Average |
|--------|------|------|------|------|-----|------|------|------|-------|------|------|------|---------|
| 1887.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1888.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1889.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1890.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1891.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1892.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1893.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1894.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1895.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1896.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1897.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1898.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1899.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1900.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1901.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1902.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1903.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1904.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1905.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1906.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1907.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| M's    | 4.1  | 4.1  | 4.1  | 6.4  | 6.4 | 7.7  | 7.7  | 7.7  | 7.7   | 6.9  | 5.1  | 4.1  | 6.1     |

Precipitation.

| Year   | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Average |
|--------|------|------|------|------|------|------|------|------|-------|------|------|------|---------|
| 1888.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1889.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1890.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1891.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1892.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1893.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1894.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1895.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1896.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1897.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1898.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1899.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1900.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1901.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1902.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1903.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1904.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1905.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1906.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| 1907.. | 1.27 | 1.27 | 1.27 | 2.02 | 4.53 | 6.00 | 3.25 | 3.14 | 3.78  | 1.81 | 2.27 | 1.53 | 3.14    |
| M's    | 4.1  | 4.1  | 4.1  | 6.4  | 6.4  | 7.7  | 7.7  | 7.7  | 7.7   | 6.9  | 5.1  | 4.1  | 6.1     |

Estimates of Temperature and Precipitation.

| Year   | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Average |
|--------|------|------|------|------|-----|------|------|------|-------|------|------|------|---------|
| 1888.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1889.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1890.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1891.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1892.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1893.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1894.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1895.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1896.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1897.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1898.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1899.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1900.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1901.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1902.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1903.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1904.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1905.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1906.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| 1907.. | 58   | 52   | 55   | 63   | 72  | 77   | 82   | 80   | 77    | 73   | 64   | 57   | 67      |
| M's    | 4.1  | 4.1  | 4.1  | 6.4  | 6.4 | 7.7  | 7.7  | 7.7  | 7.7   | 6.9  | 5.1  | 4.1  | 6.1     |

COMPARATIVE JULY DATA FOR SOUTH CAROLINA.

| Year. | Temperature. |               |               |          |          |          | Precipitation.    |                  |                |                  | Number rainy days. | Prevailing wind direction. |
|-------|--------------|---------------|---------------|----------|----------|----------|-------------------|------------------|----------------|------------------|--------------------|----------------------------|
|       | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average. | Greatest monthly. |                  | Least monthly. |                  |                    |                            |
|       |              |               |               |          |          |          | Amount.           | Place.           | Amount.        | Place.           |                    |                            |
| 1884  | 77.7         | 86.6          | 62.3          | 100      | 55       | 8.24     | 15.4              | Hardeville.      | 3.59           | Yorkville.       | 11                 | SW                         |
| 1885  | 77.5         | 86.4          | 62.1          | 102      | 54       | 4.17     | 8                 | Charleston.      | 2.00           | St. Stephens.    | 11                 | SW                         |
| 1886  | 80.7         | 89.5          | 72.3          | 105      | 51       | 8.17     | 15.72             | St. Stephens.    | 4.72           | Charleston.      | 11                 | SW                         |
| 1887  | 80.9         | 90.1          | 72.5          | 107      | 50       | 5.01     | 15.81             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1888  | 80.9         | 89.2          | 70.8          | 107      | 50       | 7.81     | 15.09             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1889  | 80.9         | 90.4          | 69.7          | 108      | 47       | 4.03     | 15.16             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1900. | 81.2         | 90.4          | 71.2          | 104      | 50       | 4.08     | 15.16             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1891  | 81.4         | 90.4          | 72.1          | 102      | 50       | 4.52     | 15.25             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1892  | 81.6         | 90.4          | 70.4          | 107      | 50       | 3.79     | 15.02             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1893  | 81.4         | 90.7          | 70.0          | 107      | 50       | 3.53     | 15.54             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1894  | 81.4         | 90.7          | 68.4          | 105      | 50       | 5.6      | 15.25             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1895  | 81.4         | 90.7          | 70.3          | 104      | 50       | 6.16     | 15.25             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1896  | 81.4         | 89.4          | 70.3          | 104      | 50       | 6.16     | 15.25             | Charleston.      | 4.72           | St. Stephens.    | 11                 | SW                         |
| 1897  | 81.4         | 87.4          | 69.3          | 100      | 50       | 8.40     | 15.77             | Clemson College. | 4.01           | Little Mountain. | 11                 | SW                         |
| 1898  | 81.4         | 91.8          | 71            | 100      | 50       | 5.06     | 15.1              | Edisto.          | 2.27           | Greenville.      | 11                 | SW                         |
| 1899  | 81.8         | 91.5          | 71.5          | 100      | 50       | 5.06     | 15.18             | Edisto.          | 2.27           | Greenville.      | 11                 | SW                         |



## CLIMATOLOGICAL DATA FOR THE MONTH OF JULY, 1908

Means, extremes, and etc.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JULY, 1908.

\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs.



# TOTAL PRECIPITATION FOR JULY, 1908



DAILY PRECIPITATION FOR SOUTH CAROLINA, JULY, 1908.

[illegible]

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR AUGUST, 1908

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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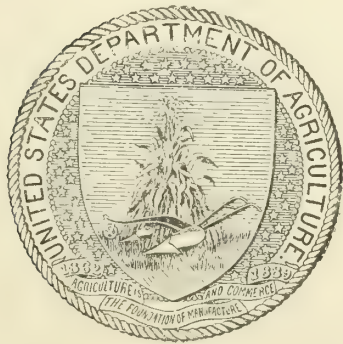
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



PITTSBURG, PA.

WEATHER BUREAU OFFICE

OCTOBER 8, 1908

to preserve the individual.



U. S. DEPARTMENT OF AGRICULTURE,  
**CLIMATOLOGICAL SERVICE**  
OF THE  
**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

Vol. XI. COLUMBIA, S. C., AUGUST, 1908. No. 8.

**GENERAL SUMMARY.**

The temperature was not especially noteworthy, except during the latter portion of the month, when it was unusually low. The precipitation was generally light, with droughty conditions in the central portions during the first and second decades, and was abnormally heavy during the first half of the third decade over the eastern and northern portions.

Except in the mountain districts, the monthly mean temperature was nearly uniform thruout the State. The first four days were, generally, the warmest part of the month, tho with nearly as high temperatures from the 14th to the 18th, inclusive.

The precipitation was not well distributed. It was slightly above the normal over the southern half of the State, except in the lower coast regions and in the lower Savannah valley, where slight deficiencies occurred. Excessive amounts were received in a few of the extreme easterly counties and in all of the northern and western counties, where in places from two to four times the normal amounts of rainfall were recorded, most of which fell from the 23d to the 26th, causing floods in all of the streams and rivers of the upper and central portions. The flood waters rose to greater heights and the floods were more destructive, and the money value of the damage was greater than ever before known, authentic records being available for comparison since 1840.

**TEMPERATURE.**

The mean temperature was 78.6°, which is 0.5° below the normal. The highest local mean was 81.2°, at Allendale; the lowest was 75.6°, at Greenville. The monthly temperature extremes were 100° at Aiken on the 1st and 3d, at Anderson on the 4th, at Blackville on the 2d and 17th, at Newberry on the 15th, at Saluda on the 3d, 4th, and 15th, and 49° at Trenton on the 29th, making the State range 51°. The greatest local monthly range was 49° at Trenton; the least was 28° at St. George. The mean of the daily maximum temperatures was 88.0°, and of the daily minimum temperatures was 69.2°, making the average daily range 18.8°.

**PRECIPITATION.**

The average precipitation was 9.11 inches, which is 4.91 inches above the normal. The greatest local monthly amount was 19.52 inches, at Greenville; the least was 3.16 inches, at Yemassee. The greatest twenty-four hour fall was 11.65 inches,

at Anderson, on the 24th-25th. The average number of days with rain was 19, ranging from 6 days at Blairs and Jacksonboro to 15 days at Ellingham and Winthrop College.

**EXCESSIVE PRECIPITATION.** At Anderson on the 24th-26th, 11.31 inches in 34 hours; at Blairs on the 24th-26th, 8.64 inches in 60 hours; at Calhoun Falls on the 23d-26th, 9.62 inches in 63 hours; at Camden (1) on the 25th-26th, 9.05 inches in 23 hours; at Catawba on the 23d-26th, 10.12 inches in 65 hours; at Cheraw on the 24th-26th, 6.54 inches in 62 hours; at Clemson College on the 25th, 2.81 inches in 24 hours; at Columbia on the 19th, 3.15 inches in 9 hours; at Conway on the 26th, 2.83 inches in 14 hours; at Dillon on the 19th, 3.69 inches in 24 hours; at Greenville on the 23d-26th, 16.94 inches in 78 hours; at Greenwood on the 24th-26th, 7.06 inches in 60 hours; at Jacksonboro on the 20th, 4.00 inches in 24 hours; at Kingstree on the 27th, 2.60 inches in about 14 hours; at Liberty on the 24th-25th, 11.12 inches in 24 hours; at Little Mountain on the 19th, 3.21 inches in 24 hours; at Mt. Holly, N. C., on the 23d-26th, 11.19 inches in 58 hours; at Pelzer on the 24th-26th, 5.14 inches in 27 hours; at St. George on the 20th, 2.60 inches in 4 hours; at Saluda on the 6th, 2.60 inches in 24 hours; at Santuc on the 23d-25th, 10.83 inches in 58 hours; at Spartanburg on the 24th-26th, 9.33 inches in 72 hours; at Ferguson on the 26th, 2.59 inches in 24 hours; at Walterboro on the 19th, 2.51 inches in 16 hours; at Winnsboro on the 24th-25th, 7.85 inches in 48 hours; at Winthrop College on the 24th-25th, 7.10 inches in 48 hours.

**WIND.**

The prevailing direction of the wind was south at 13 stations, southwest at 10 stations, southeast at 5 stations, northeast and east at 4 stations each, west at 3 stations, and northwest at 1 station.

**SUNSHINE AND CLOUDINESS.**

The average number of clear days was 12, of partly cloudy days 11, and of cloudy days 8.

**MISCELLANEOUS PHENOMENA.**

**SOLAR HALOS.**—At Blackville on the 6th; at Liberty on the 3d.

**HAIL.**—At Batesburg on the 21st; at Bowman and Summer-ville on the 2d.

**DENSE FOGS.**—At Beaufort on the 27th; at Blackville on the 10th; at Columbia on the 11th; at Liberty on the 20th; at Santuc on the 17th, 20th, 22d; at Trial on the 3d, 4th.

**THUNDERSTORMS.**—Thunderstorms occurred on 21 days. The periods of maximum frequency were the 2d, 5th-6th, 8th, 16th, 19th-21st, 23d-26th, when from five to eleven of the fifteen stations that recorded thunderstorms reported their occurrence. From one to three thunderstorms were reported on the 3d-4th, 7th, 9th-11th, 17th, and 22d.

**Errata.**

The following corrections should be made in the July, 1908, number of the Monthly Reports: On page 53, at Batesburg, the greatest 24-hour precipitation, 1.06, should be 1.14; at Cheraw, 0.97 should be 1.27, and at St. George 0.64 should be 0.70. At Liberty the highest temperature and date, 90 on the 21, should be 87 on the 18th.



## BAROMETER AND WIND TABLE FOR AUGUST, 1908.

| STATIONS.         | Barometer. |          |       |         |       | Wind.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.00      | 30.29    | 31    | 29.82   | 9     | 3924            | 5.3             | 34                | SW.        | 2     |
| Charleston        | 30.01      | 30.17    | 31    | 29.83   | 8     | 7213            | 9.7             | 35                | SW.        | 2     |
| Charlotte, N. C.  | 30.04      | 30.27    | 31    | 29.81   | 8     | 5871            | 5.2             | 30                | W.         | 18    |
| Columbia          | 30.01      | 30.23    | 31    | 29.80   | 8     | 4381            | 5.9             | 24                | W.         | 8     |
| Savannah, Ga.     | 30.01      | 30.18    | 31    | 29.83   | 10    | 4808            | 6.6             | 28                | N.         | 2     |
| Wilmington, N. C. | 30.02      | 30.18    | 31    | 29.81   | 9     | 5441            | 7.3             | 30                | E.         | 18    |
| Averages.....     | 30.02      | 30.29    | 31    | 29.80   | 8     | 4955            | 6.7             | 35                | SW.        | 2     |

## RIVER GAGE READINGS, AUGUST, 1908.

| Stations.       | Mean. | Highest. | Date. | Lowest. | Date. |
|-----------------|-------|----------|-------|---------|-------|
| Blairs          | 5.4   | 31.1     | 26    | 0.3     | 18    |
| Calhoun Falls   | 4.5   | 23.8     | 25    | 2.2     | *5    |
| Camden          | 13.5  | 39.7     | 26    | 4.8     | 16    |
| Catawba         | 7.0   | 28.4     | *25   | 2.5     | 11    |
| Chappells       |       | 34.7     | 26    | 2.5     | 3.4   |
| Cheraw          | 11.1  | 44.3     | 27    | 2.0     | 18    |
| Columbia        | 6.7   | 35.8     | 27    | 0.4     | 16    |
| Effingham       | 6.8   | 20.0     | 30    | 3.7     | 12    |
| Ferguson        | 11.0  | 23.7     | 31    | 6.5     | 6     |
| Kingstree       | 2.2   | 6.9      | *30   | 0.4     | *17   |
| Mc Holly, N. C. | 3.4   | 14.2     | 26    | 1.8     | *2    |
| Pelzer          | 4.1   | 25.6     | 25    | 2.7     | 5     |
| Rhine           | 12.0  | 33.8     | 30    | 5.2     | 17    |
| Smiths Mills    | 7.2   | 19.4     | 31    | 3.0     | 14    |

\*On other dates also.

## Remarks by Observers.

BEAUFORT: The first half of the month was warm and dry; the latter part was cool with frequent rains.—Miss E. G. RICE.

BOWMAN: There were fewer thunderstorms than usual. Very heavy rains occurred from the 21st to the 26th, inclusive, damaging roads severely.—B. O. EVANS.

CAMDEN: The highest flood waters ever known occurred in this vicinity on the 26th.—J. B. MICKLE.

CLARKS HILL: The Savannah river near this place attained a height of from 8 feet to 10 feet higher than in 1888. The flood on the 26th was caused by "up-country" rains. The local streams were affected very little by the rainfall in Edgefield county. WM. S. MIDDLETON.

DILLOX: The month was unusually warm and wet. A. E. ROWELL.

LIBERTY: The numerous showers occurred; the month was very dry and hot until the 22d, when general heavy rains caused floods on the 24th and 25th.—JNO. T. BOGGS.

NEWBERRY: Bush river was not as high as it was in September, 1888, and Little river, above the point, where it was affected by backwater from the Saluda river, lacked 6 feet of being as high as in 1888, but near the Saluda river it was 7 feet higher than in 1888.—W. G. PETERSON.

SANTUC: The first two decades were very hot, with moderate rainfall. The rainfall was excessive from the 21st to the 26th, 13.27 inches having fallen in this period, being the heaviest precipitation since records have been kept.—E. W. JETER.

SOCIETY HILL: Continuous rains from the 18th to the 26th caused a destructive flood in the Great Pee Dee river, the flood waters being higher than ever before recorded, causing great loss of crops and live stock.—Maj. J. J. LUCAS.

SPARTANBURG: Heavy rainfall from the 24th to the 26th, inclusive, caused floods in all streams in this vicinity, damaging bridges and lands to the value of many thousands of dollars, and flooded power houses and some large cotton mills.—F. P. ROBINSON.

TRENTON: The precipitation since January 1st is 5.97 inches less than the normal for the same period.—C. A. LONG.

## CLIMATOLOGY OF GREENWOOD, S. C.

## Temperature.

| Year | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Ann. |
|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1887 |      |      |      |      | 73   |      |      |      |       |      |      |      |      |
| 1888 |      |      |      |      | 71   | 70   | 69   | 81   | 71    | 61   | 53   |      |      |
| 1889 |      |      |      |      | 70   | 81   | 79   | 77   | 72    | 61   | 58   |      |      |
| 1890 |      |      |      |      | 69   | 80   | 77   | 79   | 74    | 59   | 50   |      |      |
| 1891 |      |      |      |      | 58   | 70   | 74   | 77   | 69    | 61   | 50   |      |      |
| 1892 |      |      |      |      | 64   | 70   | 77   | 82   | 79    | 75   | 64   | 52   |      |
| 1893 |      |      |      |      | 73   | 78   | 80   | 79   | 77    | 64   | 51   |      |      |
| 1894 |      |      |      |      | 61   | 71   | 80   | 79   | 77    | 61   |      |      |      |
| 1895 |      | 44   | 52   | 62   | 68   | 76   | 77   | 81   | 73    |      |      |      |      |
| 1896 | 48   | 44   | 58   | 61   | 66   | 70   | 77   | 80   | 78    | 74   | 66   | 55   | 46   |
| 1897 | 40   | 47   | 58   | 61   | 66   | 70   | 81   | 80   | 78    | 74   | 66   | 55   | 46   |
| 1898 | 47   | 43   | 57   | 57   | 73   | 81   | 81   | 80   | 73    | 60   | 44   | 40   | 61.6 |
| 1899 | 41   | 49   | 52   | 53   | 74   | 81   | 82   | 82   | 71    | 60   | 53   | 41   | 61.4 |
| 1900 | 41   | 40   | 49   | 61   | 71   | 76   | 82   | 83   | 76    | 60   | 54   | 44   | 62.1 |
| 1901 | 44   | 40   | 51   | 54   | 71   | 77   | 82   | 79   | 71    | 62   | 47   | 41   | 59.8 |
| 1902 | 40   | 48   | 52   | 59   | 74   | 78   | 81   | 82   | 72    | 62   | 57   | 43   | 61.1 |
| 1903 | 40   | 44   | 58   | 60   | 72   | 74   | 82   | 80   | 72    | 61   | 49   | 38   | 60.9 |
| 1904 | 37   | 41   | 53   | 57   | 70   | 77   | 80   | 77   | 74    | 61   | 50   | 43   | 58.1 |
| 1905 | 37   | 35   | 47   | 52   | 72   | 74   | 80   | 77   | 75    | 62   | 52   | 40   | 60.2 |
| 1906 | 43   | 43   | 48   | 64   | 63   | 78   | 77   | 79   | 75    | 59   | 51   | 44   | 60.4 |
| 1907 | 51   | 41   | 60   | 55   | 69   | 74   | 81   | 78   | 71    | 60   | 48   | 42   | 61.2 |
| Mns  | 41.6 | 41.5 | 53.3 | 52.9 | 71.2 | 78.0 | 80.2 | 78.9 | 73.4  | 61.8 | 51.8 | 42.2 | 61.2 |

## Precipitation.

| Year | Jan. | Feb. | Mar. | Apr. | May  | June | July  | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann.  |
|------|------|------|------|------|------|------|-------|-------|-------|------|------|------|-------|
| 1888 |      |      |      |      | 0.96 | 4.43 | 6.81  | 5.11  | 3.01  | 0.79 | 1.37 |      |       |
| 1889 |      |      |      |      | 0.71 | 0.78 | 5.37  | 3.34  | 7.27  | 0.17 | 0.00 |      |       |
| 1890 |      |      |      |      | 1.10 | 1.12 | 3.18  | 4.44  | 3.72  | 0.42 | 3.08 |      |       |
| 1891 |      |      |      |      | 0.70 | 2.77 | 10.48 | 4.40  | 3.84  | 0.68 | 2.00 |      |       |
| 1892 |      |      |      |      | 3.02 | 5.50 | 1.53  | 3.10  | 0.72  | 1.19 |      |      |       |
| 1893 |      |      |      |      | 3.10 | 3.52 | 0.65  | 7.32  | 1.31  | 4.14 | 2.38 |      |       |
| 1894 |      |      |      |      | 0.94 | 1.88 | 3.70  | 0.94  | 3.10  | 1.14 | 3.84 | 4.47 |       |
| 1895 | 2.00 | 6.46 | 4.48 | 2.20 | 1.94 | 4.21 | 13.72 | 2.72  | 0.00  | 8.11 | 2.89 |      |       |
| 1896 | 4.48 | 4.40 | 1.65 | 2.21 | 1.94 | 4.21 | 13.72 | 2.72  | 0.00  | 8.11 | 2.89 |      |       |
| 1897 | 4.25 | 7.27 | 4.04 | 4.28 | 2.20 | 3.33 | 2.10  | 3.14  | 3.04  | 2.34 | 2.14 | 1.22 | 41.00 |
| 1898 | 2.50 | 0.57 | 3.77 | 4.12 | 1.05 | 1.11 | 4.32  | 7.18  | 4.44  | 5.85 | 3.05 | 2.22 | 38.5  |
| 1899 | 5.20 | 9.76 | 4.26 | 1.44 | 1.84 | 1.84 | 2.17  | 6.70  | 3.80  | 3.35 | 1.04 | 2.26 | 45.67 |
| 1900 | 2.16 | 6.07 | 5.75 | 7.28 | 1.01 | 8.01 | 1.05  | 1.17  | 2.45  | 4.10 | 3.49 | 5.70 | 46.83 |
| 1901 | 3.40 | 3.81 | 1.34 | 6.48 | 6.41 | 3.80 | 2.58  | 8.00  | 5.41  | 1.22 | 0.00 | 7.15 | 38.07 |
| 1902 | 3.35 | 8.14 | 5.59 | 1.12 | 2.12 | 3.75 | 2.11  | 3.86  | 4.98  | 4.50 | 3.60 | 6.06 | 51.09 |
| 1903 | 3.94 | 9.26 | 6.46 | 2.31 | 2.31 | 4.84 | 1.70  | 7.46  | 1.14  | 2.11 | 1.73 | 1.14 | 44.41 |
| 1904 | 2.41 | 4.43 | 2.68 | 1.04 | 3.08 | 1.80 | 3.31  | 11.02 | 1.79  | 0.40 | 2.32 | 4.72 | 31.11 |
| 1905 | 1.55 | 0.24 | 1.05 | 2.03 | 5.37 | 3.07 | 3.01  | 4.12  | 0.48  | 1.43 | 1.03 | 0.35 | 20.54 |
| 1906 | 0.99 | 1.80 | 5.81 | 2.28 | 1.68 | 5.06 | 1.71  | 0.32  | 5.15  | 2.32 | 0.72 | 3.80 | 31.21 |
| 1907 | 0.44 | 3.72 | 1.94 | 3.82 | 2.35 | 6.32 | 3.05  | 3.11  | 5.43  | 1.25 | 0.25 | 7.35 | 40.11 |
| Mns  | 3.34 | 5.22 | 4.18 | 3.26 | 3.82 | 4.26 | 4.75  | 5.11  | 4.15  | 2.52 | 2.01 | 4.87 | 48.11 |

## Extremes of Temperature and Precipitation.

| Month.         | Temperature.          |        |                      |        | Precipitation.    |        |                |        |
|----------------|-----------------------|--------|----------------------|--------|-------------------|--------|----------------|--------|
|                | Highest monthly mean. | Year.  | Lowest monthly mean. | Year.  | Greatest monthly. | Year.  | Least monthly. | Year.  |
| January.....   | 51                    | 18.7   | 37                   | 4.11   | 6.09              | 1.00   | 0.44           | 1907   |
| February.....  | 47                    | 18.97  | 35                   | 1.05   | 9.70              | 18.49  | 1.89           | 1906   |
| March.....     | 60                    | 19.07  | 48                   | 1.00   | 6.46              | *18.15 | 1.05           | *18.01 |
| April.....     | 68                    | 1.00   | 55                   | 19.07  | 7.28              | 1.00   | 0.70           | 18.02  |
| May.....       | 71                    | 18.6   | 73                   | 1.00   | 7.14              | 18.45  | 0.00           | 18.89  |
| June.....      | 81                    | *18.20 | 74                   | *18.02 | 10.48             | 18.42  | 0.78           | 18.40  |
| July.....      | 82                    | *18.11 | 77                   | *18.01 | 15.72             | 18.40  | 1.05           | 19.00  |
| August.....    | 83                    | 1.00   | 76                   | 19.05  | 11.02             | 19.04  | 1.17           | 1.00   |
| September..... | 77                    | *18.04 | 69                   | 18.92  | 17.90             | 18.68  | 0.10           | 18.45  |
| October.....   | 66                    | *18.07 | 59                   | *18.11 | 6.17              | 18.90  | 0.10           | 19.04  |
| November.....  | 52                    | 18.90  | 44                   | 18.45  | 8.25              | 19.07  | 0.00           | 18.89  |
| December.....  | 46                    | 18.07  | 38                   | 1.00   | 9.27              | 19.05  | 1.14           | 19.05  |

\*And other years.

## COMPARATIVE AUGUST DATA FOR SOUTH CAROLINA.

| Year. | Temperature. |               |               |          |          |          | Precipitation.    |               |                |                 | Number rainy days. | Prevailing wind direction. |
|-------|--------------|---------------|---------------|----------|----------|----------|-------------------|---------------|----------------|-----------------|--------------------|----------------------------|
|       | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average. | Greatest monthly. |               | Least monthly. |                 |                    |                            |
|       |              |               |               |          |          |          | Amount.           | Place.        | Amount.        | Place.          |                    |                            |
| 1894. | 77.9         | 87.2          | 69.7          | 102      | 55       | 7.28     | 12.20             | Society Hill. | 0.88           | Simpsonville    | 11                 | SW.                        |
| 1895. | 79.4         | 88.1          | 71.1          | 101      | 55       | 7.95     | 12.00             | Holland.      | 3.82           | Yemassee.       | 13                 | SW.                        |
| 1896. | 80.4         | 90.2          | 70.0          | 105      | 52       | 4.14     | 10.21             | Kingstree.    | 1.02           | Clemson College | 7                  | SW.                        |
| 1897. | 78.0         | 87.5          | 68.0          | 102      | 57       | 5.16     | 0.23              | Trenton       | 1.27           | Winnboro.       | 9                  | SW.                        |
| 1898. | 78.7         | 86.7          | 70.7          | 99       | 57       | 9.81     | 24.08             | Port Royal.   | 4.28           | Gaffney.        | 18                 | SW.                        |
| 1899. | 81.2         | 91.1          | 71.2          | 103      | 59       | 6.26     | 17.44             | Pinopolis.    | 1.33           | Cheraw.         | 10                 | SW.                        |
| 1900. | 83.0         | 94.8          | 71.3          | 106      | 60       | 2.13     | 5.55              | Yemassee.     | 0.27           | Cheraw.         | 5                  | SW.                        |
| 1901. | 78.0         | 87.0          | 70.2          | 97       | 57       | 9.01     | 10.32             | Liberty.      | 3.23           | Beaufort.       | 15                 | S.                         |
| 1902. | 78.6         | 88.8          | 68.3          | 104      | 55       | 5.07     | 8.68              | Batesburg.    | 1.20           | Spartanburg.    | 12                 | SW.                        |
| 1903. | 80.6         | 90.0          | 70.5          | 105      | 60       | 7.15     | 12.83             | St. Stephens. | 3.05           | Clarks Hill.    | 12                 | SW.                        |
| 1904. | 77.6         | 87.4          | 67.8          | 102      | 54       | 8.47     | 13.43             | Effingham.    | 3.22           | Aiken.          | 14                 | SW.                        |
| 1905. | 77.4         | 87.8          | 68.0          | 107      | 46       | 5.02     | 10.87             | Santuc.       | 2.30           | Beaufort.       | 11                 | S-SW.                      |
| 1906. | 80.6         | 88.5          | 71.9          | 100      | 60       | 6.62     | 12.45             | Spartanburg.  | 2.00           | Allendale.      | 15                 | S-W.                       |
| 1907. | 79.4         | 84.5          | 69.2          | 101      | 54       | 5.41     | 11.40             | Effingham.    | 2.06           | Florence.       | 9                  | SW.                        |
| 1908. | 78.6         | 88.0          | 69.2          | 100      | 49       | 5.11     | 19.52             | Greenville.   | 3.16           | Yemassee.       | 10                 | S.                         |



Proposition 1.1 (reduction) Let  $\mathcal{A}$  be a  $\mathcal{C}^*$ -algebra. Then

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a. Indicates 1 day missing; b, 2 days, etc. † The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING AUGUST, 1908.



TOTAL PRECIPITATION FOR AUGUST 1905



## DAILY PRECIPITATION FOR SOUTH CAROLINA, AUGUST, 1908.

| STATIONS.         | DAY OF MONTH. |     |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     | Total. |       |
|-------------------|---------------|-----|-----|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|------|-----|-----|------|------|------|------|-------|------|------|-------|------|------|------|-----|--------|-------|
|                   | 1             | 2   | 3   | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17   | 18  | 19  | 20   | 21   | 22   | 23   | 24    | 25   | 26   | 27    | 28   | 29   | 30   | 31  |        |       |
| Aiken             |               |     |     |      |      |      |      | 1.53 |      |      |     |     |     |     |     |     |      |     | .06 |      | 1.20 | .93  | .16  | 1.44  |      | .70  |       |      |      |      |     | 5.79   |       |
| Allendale*        |               | .17 |     |      |      |      | .70  | .58  |      |      |     |     |     |     |     |     |      |     |     | 1.85 | .79  | .88  |      |       |      | .85  |       |      |      |      |     | 5.08   |       |
| Anderson          |               |     |     | 1.10 | .18  |      | .21  |      |      |      |     |     |     |     |     |     |      |     | .06 | .41  | .04  | 1.80 | .41  | .81   | 1.01 | .11  | .15   |      |      |      |     | 18.34  |       |
| Augusta, Ga.      | .54           |     |     | .42  |      |      | .43  |      |      |      |     |     |     |     |     | .08 | .04  | .25 | .21 |      | .10  | .05  |      | .80   | .30  | 1.01 |       |      |      |      |     | 5.31   |       |
| Barksdale         |               |     |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     |        |       |
| Batesburg*        |               | T.  |     |      |      |      | .29  |      | .60  |      |     |     |     |     |     |     |      | .38 | .10 | .24  | T.   | .46  |      | .58   | .27  | 1.73 |       |      |      |      |     | 9.29   |       |
| Beaufort          |               | T.  |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      | .18 | .05 | T.   | .11  |      | .105 | .04   | 1.88 | .07  | .08   |      |      |      |     | 4.34   |       |
| Bennettsville     |               |     |     |      | .18  |      |      | 1.14 |      |      |     |     | .50 |     |     |     | T.   |     | .06 | .48  | .68  | .17  |      | .41   | .41  | .53  |       |      |      |      |     | 5.06   |       |
| Blackville*       |               |     |     |      |      |      | .30  | T.   |      |      |     |     |     |     |     |     |      | .05 | .27 | .15  | .77  | T.   |      | .75   |      |      |       |      |      |      |     | 5.18   |       |
| Blairs*           |               |     |     |      |      |      | .84  |      |      |      |     |     |     |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     |        | 9.88  |
| Bowman            |               | .78 |     |      | .18  |      | .97  |      | .12  |      |     |     |     |     |     |     |      | .62 | .41 | 2.28 | T.   | T.   |      |       |      | 1.39 | 4.74  | 2.00 |      |      |     |        | 9.18  |
| Calhoun Falls*    |               |     |     |      |      |      | .64  |      |      | .91  |     |     |     |     |     |     |      |     |     | .22  |      | .82  |      | .48   | 1.78 |      |       |      |      |      |     | 12.60  |       |
| Camden (1)        |               |     | T.  |      | .60  | .48  | .02  | .35  | T.   |      |     |     |     | .06 |     |     |      |     |     | .82  |      | .26  | .20  | .14   | 3.02 | 6.03 |       | T.   |      |      |     | 14.42  |       |
| Camden (2)*       | .06           |     |     |      |      |      | .12  |      | 1.24 | 1.42 |     |     |     |     |     |     |      |     |     | .11  | .64  | .06  |      |       |      |      |       |      |      |      |     | 6.78   |       |
| Catawba*          |               |     |     |      |      |      | T.   | .20  |      | 1.44 |     |     |     |     |     |     |      |     |     | .19  |      | .64  |      | .12   | 3.62 | 1.84 | 3.80  | .70  |      |      |     | 13.34  |       |
| Chappells*        |               |     |     |      | .34  | .18  |      |      | 1.40 |      |     |     |     |     |     |     |      |     |     | .02  |      | .48  |      |       |      |      |       |      |      |      |     |        |       |
| Charleston        |               | T.  |     |      | .07  | .02  | .80  | .19  | .15  |      |     |     | .18 |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     |        |       |
| Charlotte, N. C.  |               |     |     | 1.03 | .51  | .21  | .28  | .03  |      |      |     |     |     |     |     |     | 1.23 | T.  | .61 | .57  |      | .06  | .01  | 2.74  | 1.95 | 1.10 | 1.12  | .01  | T.   | T.   |     | 3.83   |       |
| Cheraw (1)*       | .15           |     |     |      | .01  | .23  |      | 1.45 |      |      |     |     |     |     |     |     |      |     |     |      | 1.55 | 1.60 |      | 2.4   | 2.02 | 1.05 | 2.1   | 2.27 | .04  |      |     | 16.81  |       |
| Cheraw (2)*       | .18           |     |     |      | .02  | .31  |      | 1.36 |      |      |     |     |     |     |     |     |      |     |     |      | 1.54 | 1.87 | .94  | 15    | 4.02 | 1.08 | 1.60  | .36  | .02  |      |     | 11.74  |       |
| Clarks Hill       | 1.00          |     |     |      | T.   | .42  |      |      |      |      |     |     |     |     |     |     |      |     |     |      | .21  | T.   |      | 1.104 | .73  | .12  |       |      |      |      |     | 4.05   |       |
| Clemson College   |               |     |     |      |      |      | .30  |      |      |      |     |     |     |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     |        | 7.27  |
| Columbia          |               | T.  |     |      | .36  | .06  |      | .06  | T.   |      |     |     |     |     |     |     |      |     |     |      | .15  |      | .95  | 1.15  | 1.07 | 1.76 |       |      |      |      |     | 7.65   |       |
| Conway*           |               |     |     |      |      |      | .20  | .87  | .15  |      |     |     |     |     |     |     |      |     |     |      | .63  | .73  | 2.70 | T.    |      |      |       |      |      |      |     | 8.21   |       |
| Darlington        |               |     |     |      |      | 1.08 |      | 1.23 | 1.31 |      |     |     |     |     |     |     |      |     |     |      | 1.86 | .14  | .35  | .02   |      |      |       |      |      |      |     |        | 2.11  |
| Dillon            | .47           |     |     |      |      |      | 1.70 | .04  | .36  | 1.23 |     |     |     |     |     |     |      |     |     |      | 3.60 | .28  | .74  | .16   |      |      |       |      |      |      |     |        | 7.71  |
| Effingham*        |               |     |     |      |      |      | .49  | T.   | .45  | .80  |     |     |     |     | .20 |     |      |     |     |      | 1.40 | .28  | 1.10 | .60   | .20  | .15  | .28   | .76  | 1.50 | T.   | T.  | 10.16  |       |
| Ferguson*         | .99           |     |     |      |      |      | .79  | .06  |      |      | .40 | .10 |     |     |     |     |      |     |     |      | .15  | 1.50 |      | 1.35  |      |      |       |      |      |      |     | 6.62   |       |
| Florance*         | .08           |     |     |      |      |      | .70  |      | .10  | 1.80 |     |     |     |     |     |     |      |     |     |      | 1.81 | .22  | .84  | .05   |      | .12  |       | 1.15 | 1.15 |      |     | 6.33   |       |
| Georgetown        |               |     |     |      |      |      | .18  | T.   | 1.45 |      |     |     |     |     |     |     |      |     |     |      | T.   | 1.24 | .86  | .09   |      | .08  |       | .24  | 2.16 |      |     | 6.30   |       |
| Greenville*       |               |     |     |      | .31  | .50  | T.   | .50  |      |      |     |     |     |     |     |     |      |     |     |      | .16  | .25  | .55  | .47   | 2.80 | 1.02 | 6.02  | 7.13 |      |      |     | 19.52  |       |
| Greenwood*        |               |     |     |      | .25  | .40  | .20  |      | .50  |      |     |     |     |     |     |     |      |     |     |      | .43  | .03  | T.   |       | 1.67 | 2.46 | 1.94  | 2.66 |      |      |     | 10.84  |       |
| Heath Springs     |               |     |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     |        |       |
| Jacksonboro       | .10           |     |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      | 4.00 |      |       | .13  |      | .19   | 1.74 | .53  | T.   |     | 6.10   |       |
| Kingstree (1)*    |               |     |     |      |      |      | .75  | 1.33 |      |      |     |     |     | .10 |     |     |      |     |     |      | 1.55 | 1.26 | 2.42 | .14   | .12  | T.   |       | .72  | 2.60 | .03  |     | 21.71  |       |
| Kingstree (2)*    |               |     |     |      |      |      |      | 1.40 |      |      |     |     |     |     |     |     |      |     |     |      | 1.04 | 1.48 | 2.33 | .30   | T.   |      | 1.80  |      |      |      |     | 10.85  |       |
| Liberty           |               |     |     | .08  | .80  | .06  | T.   | .84  | T.   |      |     |     |     |     |     |     | .20  | .10 |     |      | T.   | .16  | .08  | .80   | .40  | .50  | 11.12 |      | T.   |      |     | 10.06  |       |
| Little Mountain   |               |     |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     |        |       |
| Newberry          | 1.02          |     |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      | 3.21 | 1.22 | .06   |      | 1.18 | .11   | 1.88 | 2.51 | .12  |     | 12.41  |       |
| Pelzer*           |               |     | .21 | .00  |      | .15  |      |      |      |      |     |     |     |     |     |     |      |     |     |      | 1.34 |      | .30  |       | 1.03 | 1.24 | 1.07  | 1.24 |      |      |     | 9.06   |       |
| Pinopolis         |               |     |     |      |      | 1.06 |      | .28  | .40  |      |     |     |     |     |     |     |      |     |     |      | .08  | .06  | .4   | .64   |      | .48  | 2.96  | 2.18 |      |      |     | 9.08   |       |
| St. George*       |               |     |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     |        |       |
| St. Matthews*     | 1.45          |     |     |      |      | 1.57 |      | 1.97 |      |      |     |     |     |     |     |     |      |     |     |      | .75  | 2.60 | 1.70 | .20   |      |      |       | .10  | .80  |      |     | 11.13  |       |
| Saluda            |               | .22 |     |      |      | .55  | .23  | .78  |      |      |     |     |     |     |     |     |      |     |     |      | .20  | .79  | .67  | .63   |      |      |       | .10  | .95  | .05  |     | 6.14   |       |
| Santee            |               |     | .06 |      | 2.60 | T.   |      |      |      |      |     |     |     |     |     |     |      |     |     |      | .05  | .20  | .17  | .02   | T.   | .44  | .93   | 1.54 | .10  | .01  |     | 6.82   |       |
| Savannah, Ga.     |               |     |     | .04  | .99  |      | .30  | .02  |      |      |     |     |     |     |     |     |      |     |     |      | T.   | 1.40 | .05  | 1.37  | .74  | 2.82 | .31   | .61  | .04  |      |     | 13.00  |       |
| Smiths Mills*     | .05           |     |     |      |      | T.   | .33  | T.   | .04  | .08  |     |     | .07 |     |     |     |      |     |     |      | .02  | .11  | .94  | .40   | .31  | .31  | 1.01  | T.   | .15  | .01  |     | 4.13   |       |
| Society Hill      | .17           |     |     |      |      |      | .20  |      | T.   |      |     |     |     |     | .58 |     |      |     |     |      | 1.11 | .50  | 1.42 | .22   | .60  |      |       | T.   | .44  | 2.20 |     | 7.16   |       |
| Spartanburg*      |               |     |     |      |      |      |      | .82  | T.   |      |     |     |     |     |     |     |      |     |     |      | .26  | 1.01 | .35  | .33   |      |      |       | .32  | .43  | .66  |     | 4.18   |       |
| Stateburg         |               | T.  |     |      |      | .75  | .05  | 1.60 | .21  |      |     |     |     |     |     |     |      |     |     |      | .15  | .14  | .15  | .34   | 2.40 | 2.43 | 1.50  | .63  | T.   |      |     | 12.25  |       |
| Summerville       |               |     |     |      |      |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      |      |      |       |      |      |       |      |      |      |     |        |       |
| Trenton           | 1.11          | .04 |     |      |      |      |      | .35  | .54  |      |     |     |     |     |     |     |      |     |     |      | 1.80 | .08  | .73  | .01   | .18  |      | .36   | 1.80 | .32  | .02  |     | 9.04   |       |
| Trial             | .38           |     |     |      | .04  |      |      |      |      |      |     |     |     |     |     |     |      |     |     |      |      | .40  | .55  |       |      |      | .05   | 1.47 | 1.80 |      |     | 5.54   |       |
| Walterboro        | 1.47          |     |     |      | .44  |      | .26  |      | .85  |      |     |     |     |     |     |     |      |     |     |      |      | .30  | .90  | 1.28  | .07  | .04  | .23   | 2.51 |      |      |     | 9.60   |       |
| Wilmington, N. C. |               |     |     |      |      |      | .79  | .88  |      |      |     |     |     |     |     |     |      |     |     |      |      | 2.81 | 1.10 | .70   | .14  | .11  |       | .25  | 1.00 | .01  |     | 9.12   |       |
| Winnboro          | .04           |     |     |      |      | T.   | .97  | .70  | 3.05 | T.   | .14 |     |     |     |     |     |      |     |     |      | .07  | .34  | .31  | .47   | .01  | .11  | .22   | .84  | 1.69 | .06  | T.  | T.     | 13.32 |
| Winthrop College  |               |     |     |      | .47  | T.   | .50  |      |      |      |     |     |     |     |     |     |      |     |     |      | .50  |      | 1.75 | .25   | .75  | .20  | 3.40  | 3.85 | .45  |      |     | 13.32  |       |
| Yemassee*         |               |     |     |      | .46  | .75  |      | .32  | .90  |      |     |     |     |     |     |     |      |     |     |      | .06  |      | .42  | .11   | .13  | .11  | 14    | 2.62 | 5.08 | 1.66 | .10 | .02    | 12.28 |
| Yorkville         |               | T.  |     |      |      |      | .21  | .28  |      |      |     |     |     |     |     |     |      |     |     |      | .10  | .09  |      | 1.65  |      | .21  | .62   | .44  |      | .13  | .13 | .01    | 3.16  |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours.



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USC

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR SEPTEMBER, 1908

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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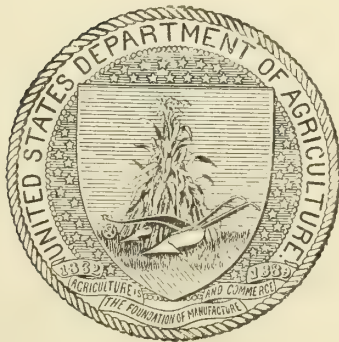
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



PITTSBURG, PA.  
WEATHER BUREAU OFFICE

NOVEMBER 3, 1908

Map of South Carolina showing county boundaries and names. Isotherms for 70° and 72° are marked with red lines and numbers. Arrows indicate wind direction.

Counties shown: Oconee, Anderson, Abbeville, Greenwood, Saluda, Newberry, Laurens, Union, Chester, York, Cherokee, Lancaster, Chesterfield, Marlborough, Darlington, Marion, Florence, Lee, Sumter, Lexington, Richland, Aiken, Edgefield, Barnwell, Beaufort, Colleton, Hampton, Berkeley, Williamsburg, and Georgetown.

Isotherms marked: 70°, 72°.

Wind direction indicated by arrows.

*grapefruit*  
*lemon*  
*lime*  
*orange*  
*pear*  
*peach*  
*plum*  
*quince*  
*apple*  
*cherry*  
*cranberry*  
*elderberry*  
*fig*  
*guava*  
*hawthorn*  
*loquat*  
*mango*  
*nectarine*  
*olive*  
*passion fruit*  
*pineapple*  
*raisin*  
*sour cherry*  
*strawberry*  
*tangerine*  
*watermelon*



U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

Vol. XI. COLUMBIA, S. C., SEPTEMBER, 1908.

No. 9

## GENERAL SUMMARY.

The month was characterized by an unusually low mean temperature, generally deficient rainfall, and low percentage of cloudiness. The mean temperature was the second lowest of record, September, 1902, having been slightly cooler. The warmest Septembers were those of 1900 and 1906, when the mean temperature was 77.1°. September, 1897, 1899, and 1903 were only slightly warmer than the present month. During the last 15-year period the least monthly precipitation was 1.29 inches in 1895. In that year a large portion of the State received no rainfall. The rainfall is usually unevenly distributed in September. The exceptions occurred in 1894 and 1907, when the entire State received nearly normal amounts and a few stations received from two to three times their normal amounts.

The mean temperature was below the normal, except at one station, the departures ranging from 0.7° to 4.8°. The greatest departures occurred generally in the western portion the State. Maximum temperatures of 90° or above were recorded at a majority of the stations, principally on the 2d, 5th, 7th, 8th, 12th, 13th, and 14th. The monthly minimum temperatures were below 50° in the central and western portions, and generally above 50° in the eastern portion. Light frosts were recorded in the extreme northwestern portion on the 28th, 29th, and 30th.

The heaviest rainfall, amounting to over six inches, was recorded in Kershaw, Lee, Darlington, and Florence counties, and in the extreme southern point of Beaufort county. The central and eastern portions received an average of slightly over three inches, except a considerable area in the northern part of the coast region, where the precipitation was below two inches, and in portions of Orangeburg and Berkeley counties where it was less than one inch. The western division received less than two inches, except Pickens, Greenville, and a part of Anderson counties, where the average rainfall was about three inches. There were two periods with general rains, the first began on the 4th and ended on the 8th, and the second included the 26th-28th. During the intervening time practically no rain fell except a few very light and widely scattered showers, with amounts generally too small to measure.

The sunshine was above the normal, more especially from the 9th to the 21st, inclusive. The wind movement was below the normal, except along the immediate coast. The prevailing winds were northeast, that being the prevailing direction for the last 15 years, except in 1907, when it was south.

## TEMPERATURE.

The mean temperature was 72.1°, which is 1.1° below the normal. The highest recorded mean was 76.1° at Beaufort; the lowest was 69.0° at Clemson College. The monthly temperature extremes were 91° at Walterboro on the 9th and 11th, and 49° at Liberty on the 29th, making the State range 42°. The greatest local monthly range was 53° at Anderson; the local range was 35° at Charleston. The sum of the daily maximum temperatures was 82.6°, and of the daily minimum temperatures was 74.2°, making the average daily range 29.4°.

## PRECIPITATION.

The average precipitation was 2.79 inches, which is 1.14 inches below the normal. The greatest local monthly amount was 6.98 inches, at Camden (2); the least was 0.12 inch, at Ferguson. The greatest 24-hour rainfall was 4.60 inches, at Camden (2) on the 28th. The average number of days with rain was 4, ranging from 2 days at Beaufort and Ferguson to 6 days at 10 stations.

**EXCESSIVE PRECIPITATION.**—At Calhoun Falls on the 5th, 2.84 inches in 22 hours; at Camden (1) on the 27th-28th, 3.78 inches in 24 hours; at Camden (2) on the 28th, 4.60 inches in 24 hours; at Florence on the 6th, 4.25 inches in about 14 hours.

## WIND.

The prevailing direction of the wind was northeast at 24 stations, east at 11 stations, north at 5 stations, and southeast, south, and southwest at 1 station, each.

## SUNSHINE AND CLOUDINESS.

The average number of clear days was 15, of partly cloudy days 9, and of cloudy days 6.

## MISCELLANEOUS PHENOMENA.

**HAIL.**—At Liberty on the 7th.

**HIGH WINDS.**—At Beaufort on the 25th, 26th; at Camden on the 7th.

**SOLAR HALOS.**—At Camden on the 30th; at Santuc on the 18th, 19th; at Trenton on the 24th.

**LIGHT FROSTS.**—The first light frosts of the season occurred at Anderson and Liberty on the 29th; at Newberry on the 29th, 30th; at Pelzer on the 28th.

**AUROSAS.**—A brilliant aurora was observed from about 8.20 p. m. to 9.40 p. m. at Camden on the 11th, 29th; at Columbia, Little Mountain, Newberry, Saluda, Trenton, and Winthrop College on the 11th.

**DENSE FOGS.**—Dense fogs occurred at Beaufort, Blackville, Camden, Charleston, on the 21st; at Columbia on the 7th; at Jacksonboro on the 21st, 22d, 23d, 24th; at Liberty and Society Hill, on the 6th; at St. George on the 24th; at Trial on the 20th.

**THUNDERSTORMS.**—Thunderstorms occurred on 12 days. The periods of maximum frequency were the 2d, 4th-8th, 27th-28th, when from 3 to 9 of the 15 stations that recorded thunderstorms reported their occurrence. One or two stations recorded thunderstorms on the 3d, 9th, 22d, and 23d.

## Errata.

The following changes should be made on the August, 1908, Monthly Report, namely: on page 61, at Little Mountain, total precipitation 12.1 should be 11.31; at St. George, greatest 24-hour precipitation 2.00 should be 3.35; at St. Matthews, greatest 24-hour precipitation 1.70 should be 1.36; at Summerville, greatest 24-hour precipitation 1.91 should be 1.95; at Winnsboro, mean temperature 77.4 should be 77.6. On page 64, at Little Mountain, precipitation on the 3d, 1.02, should be 0.02, and the total precipitation, 12.31, should be 11.31.



## BAROMETER AND WIND TABLE FOR SEPTEMBER, 1908.

| STATIONS.         | Barometer. |          |       |         |       | Wind.           |                 |                   |            |       |
|-------------------|------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                   | Mean.      | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                   |            |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.      | 30.06      | 30.27    | 10    | 29.83   | 27    | 4435            | 6.2             | 23                | ne.        | 15    |
| Charleston.       | 30.04      | 30.23    | 10    | 29.79   | 14    | 8162            | 11.3            | 34                | e.         | 26    |
| Charlotte, N. C.  | 30.10      | 30.35    | 9     | 29.88   | 28    | 4090            | 5.7             | 20                | ne.        | 16    |
| Columbia.         | 30.07      | 30.30    | 9     | 29.85   | 13    | 4684            | 6.5             | 25                | sw.        | 28    |
| Savannah, Ga.     | 30.04      | 30.22    | 10    | 29.80   | 13    | 4858            | 6.7             | 21                | se.        | 27    |
| Wilmington, N. C. | 30.07      | 30.29    | 9     | 29.82   | 13    | 5472            | 7.6             | 25                | ne.        | 15    |
| Averages.....     | 30.06      | 30.35    | 9     | 29.79   | 14    | 5284            | 7.3             | 34                | e.         | 26    |

## RIVER GAGE READINGS, SEPTEMBER, 1908.

| Stations.        | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|-------|----------|-------|---------|-------|
| Blairs           | 1.7   | 3.9      | 2     | 0.4     | 26    |
| Calhoun Falls.   | 3.1   | 5.3      | 5     | 2.5     | 26    |
| Camden           | 10.8  | 25.0     | 7     | 6.7     | 18    |
| Catawba          | 3.0   | 6.5      | 7     | 2.2     | *20   |
| Chappells        | 2.9   | 3.6      | 29    | 2.5     | 24    |
| Cheraw           |       | 7.9      | 29    | 1.9     | *24   |
| Columbia         | 2.9   | 8.6      | 7     | 1.3     | 11    |
| Effingham        | 7.5   | 17.0     | 1     | 3.6     | *27   |
| Ferguson         | 11.9  | 23.0     | 1     | 7.4     | *25   |
| Kingstree        | 3.3   | 6.9      | 1     | 0.2     | *26   |
| Mt. Holly, N. C. | 2.0   | 4.0      | 6     | 1.8     | *9    |
| Pelzer           | 3.4   | 4.4      | 1     | 2.8     | *26   |
| Rimini           | 11.5  | 28.9     | 1     | 6.2     | 26    |
| Smiths Mills.    | 13.4  | 24.0     | *3    | 3.5     | 30    |

\*On other dates also.

## Remarks by Observers.

BEAUFORT: The month was generally cool, with more than the usual amount of cloudiness. Thunderstorms were of frequent occurrence early in the month.—Miss E. G. RICE.

BOWMAN: The rainfall was unusually light, streams and ponds have begun to dry up, and water is low in wells, some wells having been deepened to maintain water.—B. O. EVANS.

LIBERTY: The precipitation was light after the 7th, there having been a period of nineteen days without rain. The winds were generally easterly after the first week. The last few days were cool, with light frosts in places.—Jno. T. Boggs.

SANTUC: The month was very dry, rain having fallen on only three days. The percentage of cloudiness was unusually low. The latter half of the month was very hazy and smoky. The temperature averaged unusually low.—E. W. JETER.

SOCIETY HILL: The weather as a whole was very favorable thruout the month.—Maj. J. J. LUCAS.

SUMMERVILLE: The relative humidity for the month was 84. The month was unusually cool and dry.—Miss E. H. GADSDEN.

TRENTON: The total precipitation since January 1st is 7.41 inches less than the normal amount for the same period.—C. A. LONG.

## CLIMATOLOGY OF KINGSTREE, S. C.

## Temperature.

| Year.  | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|--------|------|------|------|------|------|-------|-------|------|-------|------|------|------|-------|
| 1887.. |      |      |      |      | 72   |       |       |      |       |      |      |      |       |
| 1888.. |      |      |      |      |      |       |       | 80   | 74    | 66   |      |      |       |
| 1889.. |      |      |      |      | 72   | 76    | 80    | 75   | 72    | 63   | 57   |      |       |
| 1890.. |      |      |      |      | 71   | 81    | 78    | 78   | 75    | 65   | 58   |      |       |
| 1891.. |      |      |      |      |      |       |       | 80   |       | 60   | 51   |      |       |
| 1892.. |      |      |      | 64   | 72   | 78    | 79    | 79   | 73    | 64   | 53   |      |       |
| 1893.. |      |      |      |      | 71   | 77    | 82    | 81   | 80    | 70   | 60   |      |       |
| 1894.. |      |      |      |      | 72   | 77    | 78    | 81   | 79    | 69   | 56   | 54   |       |
| 1895.. |      |      |      |      |      |       |       | 81   | 77    | 64   | 58   | 49   |       |
| 1896.. | 47   | 50   | 55   | 68   | 78   | 79    | 82    | 81   | 75    | 61   | 59   | 43   | 64.8  |
| 1897.. | 43   | 58   | 59   | 63   | 70   | 81    | 82    | 80   | 73    | 66   | 55   | 48   | 64.8  |
| 1898.. | 50   | 42   | 60   | 58   | 76   | 81    | 82    | 80   | 76    | 64   | 53   | 48   | 64.4  |
| 1899.. | 47   | 45   | 57   | 61   | 74   | 80    | 80    | 82   | 73    | 64   | 54   | 46   | 63.7  |
| 1900.. | 44   | 45   | 52   | 62   | 70   | 76    | 80    | 82   | 76    | 66   | 56   | 44   | 62.6  |
| 1901.. | 46   | 44   | 54   | 56   | 71   | 76    | 80    | 78   | 73    | 61   | 41   | 44   | 60.9  |
| 1902.. | 42   | 41   | 54   | 59   | 72   | 76    | 81    | 77   | 74    | 64   | 58   | 49   | 62.1  |
| 1903.. | 45   | 49   | 61   | 60   | 71   | 75    | 80    | 80   | 73    | 62   | 50   | 42   | 62.4  |
| 1904.. | 41   | 46   | 56   | 59   | 70   | 76    | 79    | 77   | 74    | 63   | 52   |      |       |
| 1905.. | 46   | 42   | 61   | 62   | 76   | 80    | 83    | 80   | 78    | 67   | 53   |      |       |
| 1906.. | 53   | 51   | 57   | 68   | 75   | 81    | 80    | 82   | 79    | 65   | 60   |      |       |
| 1907.. | 56   | 51   | 68   | 60   | 73   | 78    | 83    | 82   | 78    | 62   | 55   | 50   | 66.3  |
| M'ns   | 46.9 | 46.9 | 57.7 | 61.7 | 72.8 | 78.1  | 80.7  | 79.7 | 75.3  | 64.4 | 55.2 | 46.7 | 63.8  |

## Precipitation.

| Year.  | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l |
|--------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|-------|
| 1888.. |      |      |      |      |      |       |       | 1.52  | 9.39  | 3.59 |      |      |       |
| 1889.. |      |      |      |      | 1.45 | 4.64  | 6.82  | 6.16  | 3.51  | 1.83 | 4.00 |      |       |
| 1890.. |      |      |      |      | 7.14 | 1.89  | 5.19  | 4.68  | 7.50  | 1.14 | T.   |      |       |
| 1891.. |      |      |      |      |      |       |       | 13.96 |       | 1.35 | 1.55 |      |       |
| 1892.. |      |      |      | 0.89 | 5.52 | 6.24  | 6.19  | 4.40  | 4.13  | 0.89 | 4.45 |      |       |
| 1893.. |      |      |      |      | 2.81 | 7.57  | 4.28  |       | 2.55  | 3.97 | 1.47 |      |       |
| 1894.. | 2.91 | 2.51 | 1.30 | 1.63 | 0.25 | 8.78  | 5.07  | 7.31  | 4.24  | 1.56 | 1.44 |      |       |
| 1895.. | 7.57 | 4.25 | 3.66 | 4.10 | 5.39 | 4.45  | 3.69  | 6.22  | 0.76  | 0.47 | 1.74 | 1.80 | 44.10 |
| 1896.. | 2.76 | 5.56 | 2.46 | 1.41 | 2.40 | 7.98  | 10.74 | 10.14 | 1.24  | 0.50 | 2.38 | 4.21 | 51.78 |
| 1897.. | 2.16 | 7.24 | 2.92 | 1.79 | 2.73 | 5.98  | 4.60  | 4.72  | 4.83  | 2.29 | 2.20 | 2.57 | 41.87 |
| 1898.. | 0.90 | 1.04 | 2.63 | 4.97 | 2.51 | 2.40  | 5.49  | 11.18 | 3.81  | 1.90 | 5.93 | 2.39 | 45.15 |
| 1899.. | 3.29 | 4.33 | 2.19 | 3.40 | 0.97 | 4.72  | 3.79  | 5.28  | 2.97  | 2.21 | 3.65 | 1.77 | 38.58 |
| 1900.. | 2.62 | 3.99 | 3.34 | 3.60 | 1.50 | 7.09  | 6.77  | 1.46  | 2.03  | 5.24 | 2.18 | 7.17 | 39.06 |
| 1901.. | 3.82 | 2.63 | 3.24 | 2.76 | 5.26 | 7.33  | 2.33  | 4.28  | 2.21  | 0.85 | 1.54 | 2.81 | 31.06 |
| 1902.. | 1.36 | 6.18 | 2.58 | 1.67 | 2.77 | 4.20  | 5.50  | 6.35  | 2.17  | 3.02 | 2.30 | 5.76 | 43.86 |
| 1903.. | 3.28 | 4.99 | 5.74 | 2.64 | 1.35 | 4.55  | 2.94  | 8.64  | 3.42  | 3.89 | 0.45 | 2.49 | 49.38 |
| 1904.. | 3.78 | 3.78 | 4.20 | 0.75 | 0.90 | 2.38  | 7.62  | 6.85  | 2.06  | 1.63 | 1.89 | 4.85 | 40.66 |
| 1905.. | 1.20 | 5.38 | 2.30 | 3.11 | 3.77 | 2.09  | 6.66  | 4.44  | 3.36  | 1.48 | 1.30 |      |       |
| 1906.. | 4.19 | 4.85 | 2.43 | 2.40 | 9.01 | 9.39  | 4.35  | 5.60  | 5.28  |      |      | 2.82 |       |
| 1907.. | 0.86 | 2.42 | 1.05 | 6.04 | 2.58 | 6.11  | 6.54  | 8.23  | 4.72  | 0.15 | 2.42 | 8.82 | 45.94 |
| M'ns   | 2.90 | 4.21 | 3.12 | 2.72 | 2.95 | 5.22  | 5.96  | 6.21  | 3.82  | 2.30 | 2.28 | 3.45 | 45.14 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      | Precipitation. |                   |       |
|-----------|-----------------------|-------|----------------------|----------------|-------------------|-------|
|           | Highest monthly mean. | Year. | Lowest monthly mean. | Year.          | Greatest monthly. | Year. |
| January   | 56                    | 1907  | 41                   | 1904           | 7.57              | 1895  |
| February  | 58                    | 1897  | 41                   | 1902           | 7.24              | 1897  |
| March     | 68                    | 1907  | 52                   | 1900           | 5.74              | 1903  |
| April     | 68                    | *1906 | 56                   | 1901           | 6.04              | 1907  |
| May       | 78                    | 1896  | 70                   | *1895          | 7.14              | 1890  |
| June      | 81                    | *1890 | 75                   | 1903           | 9.01              | 1906  |
| July      | 83                    | 1905  | 78                   | *1890          | 10.74             | 1896  |
| August    | 82                    | *1899 | 75                   | 1889           | 13.96             | 1891  |
| September | 80                    | 1893  | 72                   | *1889          | 9.39              | 1888  |
| October   | 70                    | 1891  | 60                   | 1891           | 5.28              | 1906  |
| November  | 60                    | *1893 | 49                   | 1901           | 5.93              | 1898  |
| December  | 52                    | 1894  | 43                   | 1896           | 8.82              | 1907  |

\*And other years.

## COMPARATIVE SEPTEMBER DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |               |                |                     | Number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|---------------|----------------|---------------------|--------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average.       | Greatest monthly. |               | Least monthly. |                     |                    |                            |
|           |              |               |               |          |          |                | Amount.           | Place.        | Amount.        | Place.              |                    |                            |
| 1894..... | 75.0         | 83.0          | 67.2          | 100      | 52       | 6.51           | 10.94             | Charleston.   | 2.34           | Central.            | 12                 | ne.                        |
| 1895..... | 76.9         | 85.9          | 67.2          | 106      | 35       | 1.29           | 6.94              | Charleston.   | 0.00           | Central & 2 others. | 4                  | ne.                        |
| 1896..... | 75.0         | 86.2          | 63.9          | 105      | 39       | 2.94           | 8.06              | Central.      | 0.50           | Shaw's Fork.        | 5                  | ne.                        |
| 1897..... | 73.3         | 84.2          | 62.4          | 100      | 42       | 2.91           | 5.52              | St. Matthews. | 0.80           | Walhalla.           | 4                  | ns.                        |
| 1898..... | 76.0         | 84.1          | 67.9          | 96       | 48       | 4.06           | 10.32             | Mt. Carmel.   | 0.50           | Batesburg.          | 7                  | ne.                        |
| 1899..... | 72.8         | 83.3          | 62.3          | 102      | 34       | 2.55           | 5.25              | Smiths Mills. | 0.55           | Anderson.           | 6                  | ne.                        |
| 1900..... | 77.1         | 88.0          | 66.2          | 100      | 45       | 2.83           | 6.51              | Trial.        | 1.08           | Temperance.         | 5                  | ne.                        |
| 1901..... | 73.1         | 82.5          | 63.7          | 98       | 46       | 4.66           | 8.40              | Cheraw.       | 0.30           | Bowman.             | 6                  | ne.                        |
| 1902..... | 72.1         | 82.1          | 62.1          | 98       | 43       | 3.74           | 7.97              | Beaufort.     | 1.10           | Bowman.             | 8                  | ne.                        |
| 1903..... | 72.7         | 82.9          | 62.5          | 100      | 41       | 3.62           | 9.43              | Yemassee.     | 0.60           | Due West.           | 5                  | ne.                        |
| 1904..... | 75.8         | 85.8          | 65.8          | 101      | 44       | 2.46           | 9.50              | Smiths Mills. | T.             | Little Mountain.    | 4                  | ne.                        |
| 1905..... | 76.2         | 86.8          | 65.6          | 98       | 49       | 1.91           | 8.60              | Darlington.   | T.             | Due West.           | 4                  | ne.                        |
| 1906..... | 77.1         | 85.9          | 68.3          | 98       | 55       | 4.85           | 14.37             | Walhalla.     | 1.43           | Edisto.             | 9                  | ne.                        |
| 1907..... | 76.0         | 85.8          | 66.2          | 99       | 45       | 5.91           | 10.02             | Pinopolis.    | 2.73           | Charleston.         | 9                  | s.                         |
| 1908..... | 72.4         | 82.5          | 62.2          | 94       | 40       | 2.86           | 6.98              | Camden [2]    | 0.78           | Georgetown.         | 4                  | ne.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER, 1908.

| STATIONS.                       | Counties          | Elevation (feet). | Length of record (years). | Temperature— in degrees Fahrenheit |                            |          |         |                       |        | Precipitation— in inches   |                       |                                 |                 | Sky.            |                 |                               |    | Observing office. |                        |                       |
|---------------------------------|-------------------|-------------------|---------------------------|------------------------------------|----------------------------|----------|---------|-----------------------|--------|----------------------------|-----------------------|---------------------------------|-----------------|-----------------|-----------------|-------------------------------|----|-------------------|------------------------|-----------------------|
|                                 |                   |                   |                           | Mean.                              | Departure from the normal. | Highest. | Lowest. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total (showing number of days). | Number of days. | Number of days. | Number of days. | Prevailing direction of wind. |    |                   |                        |                       |
|                                 |                   |                   |                           |                                    |                            |          |         |                       |        |                            |                       |                                 |                 |                 |                 |                               |    |                   |                        |                       |
| Aiken.....                      | Aiken.....        | 505               | 24                        | 72.8                               | 1.8                        | 92       | *2      | 45                    | 17     | 1.68                       | -1.06                 | 1.18                            | 0               | 3               | 21              | 8                             | 1  | ne.               | C. F. McDaniel, N. C.  |                       |
| Allendale.....                  | Barnwell.....     | 180               | 20                        | 74.1                               | 1.0                        | 92       | *2      | 41                    | 17     | 1.81                       | -2.59                 | 0.80                            | 0               | 3               | 18              | 1                             | 0  | ne.               | A. R. Hoots.           |                       |
| Anderson.....                   | Anderson.....     | 764               | 7                         | 71.2                               | 1.0                        | 93       | 2       | 42                    | 29     | 2.72                       | -1.28                 | 2.25                            | 0               | 3               | 17              | 1                             | 0  | ne.               | H. H. Russell.         |                       |
| Augusta, Ga.....                | Richmond.....     | 134               | 37                        | 73.5                               | 0.9                        | 91       | 2       | 40                    | 29     | 2.44                       | 1.28                  | 1.52                            | 0               | 5               | 15              | 8                             | 9  | ne.               | Weather Bureau.        |                       |
| Barksdale.....                  | Laurens.....      | 680               | 20                        | 70.9                               | 3.2                        | 88       | 20      | 40                    | 21     | 1.32                       | -1.95                 | 0.69                            | 0               | 0               | 17              | 0                             | 7  | ne.               | J. T. Garrett.         |                       |
| Batesburg.....                  | Lexington.....    | 556               | 20                        | 70.9                               | 3.2                        | 88       | 20      | 40                    | 21     | 1.32                       | -1.95                 | 0.69                            | 0               | 0               | 17              | 0                             | 7  | ne.               | E. J. Hite.            |                       |
| Beaufort.....                   | Beaufort.....     | 20                | 22                        | 76.1                               | 1.0                        | 92       | 7       | 48                    | 21     | 2.02                       | -2.59                 | 1.31                            | 0               | 4               | 24              | 4                             | 0  | ne.               | Miss L. G. Rice.       |                       |
| Bennettsville.....              | Marlboro.....     | 151               | 7                         | 73.4                               | 0.9                        | 92       | 2       | 48                    | *7     | 18                         | 2.02                  | 2.41                            | 0               | 6               | 10              | 11                            | 9  | ne.               | C. S. McCall.          |                       |
| Blackville.....                 | Barnwell.....     | 296               | 20                        | 73.3                               | -1.9                       | 93       | 1       | 42                    | *16    | 18                         | 4.10                  | +0.24                           | 0.94            | 0               | 4               | 29                            | 5  | 0                 | ne.                    | Miss M. E. Lange.     |
| Blairs.....                     | Fairfield.....    | 293               | 3                         | 71.4                               | 0.9                        | 93       | 1       | 42                    | 17     | 2.02                       | -2.59                 | 0.68                            | 0               | 2               | 19              | 8                             | 3  | ne.               | T. S. McMeekin.        |                       |
| Bowman.....                     | Orangeburg.....   | 160               | 7                         | 71.4                               | 0.9                        | 93       | 1       | 40                    | 17     | 4.13                       | +1.37                 | 3.41                            | 0               | 5               | 24              | 0                             | 6  | ne.               | B. O. Evans.           |                       |
| Calhoun Falls.....              | Abbeville.....    | 508               | 15                        | 72.3                               | 0.9                        | 93       | 1       | 42                    | 17     | 6.00                       | 3.78                  | 3.78                            | 0               | 4               | 22              | 5                             | 3  | ne.               | P. J. Pfeifer.         |                       |
| Camden (1).....                 | Kershaw.....      | 222               | 42                        | 72.3                               | 0.9                        | 93       | 1       | 42                    | 30     | 6.98                       | 13.14                 | 4.60                            | 0               | 4               | 24              | 3                             | 3  | ne.               | J. B. Mickle.          |                       |
| Camden (2).....                 | Kershaw.....      | 222               | 42                        | 72.3                               | 0.9                        | 93       | 1       | 42                    | 30     | 6.98                       | 13.14                 | 4.60                            | 0               | 4               | 24              | 3                             | 3  | ne.               | W. C. Brown.           |                       |
| Catawba.....                    | York.....         | 402               | 3                         | 72.3                               | 0.9                        | 93       | 1       | 42                    | 17     | 1.32                       | 0.52                  | 0.52                            | 0               | 5               | 20              | 5                             | 5  | ne.               | Jas. C. Faris.         |                       |
| Chapin.....                     | Newberry.....     | 48                | 39                        | 75.4                               | -0.8                       | 89       | 0       | 51                    | 10     | 1.06                       | -4.40                 | 0.77                            | 0               | 5               | 10              | 12                            | 8  | ne.               | W. R. Zimmerman.       |                       |
| Charleston.....                 | Charleston.....   | 808               | 30                        | 69.6                               | 1.1                        | 86       | 2       | 46                    | 29     | 2.61                       | -1.72                 | 0.97                            | 0               | 3               | 16              | 11                            | 3  | ne.               | Weather Bureau.        |                       |
| Charlotte, N. C.....            | Mecklenburg.....  | 144               | 20                        | 70.8                               | 2.5                        | 88       | 2       | 47                    | 17     | 2.53                       | 1.61                  | 1.36                            | 0               | 3               | 16              | 7                             | 7  | ne.               | W. R. Godfrey.         |                       |
| Cheraw (1).....                 | Chesterfield..... | 87                | 15                        | 71.1                               | 0.9                        | 90       | 2       | 45                    | 29     | 1.93                       | -2.07                 | 1.22                            | 0               | 3               | 25              | 2                             | 3  | ne.               | Jno. H. Powe.          |                       |
| Cheraw (2).....                 | Chesterfield..... | 87                | 15                        | 71.1                               | 0.9                        | 90       | 2       | 45                    | 29     | 1.93                       | -2.07                 | 1.22                            | 0               | 3               | 25              | 2                             | 3  | ne.               | Wm. S. Middleton.      |                       |
| Clarks Hill.....                | Edgefield.....    | 500               | 6                         | 71.1                               | 0.9                        | 90       | 2       | 45                    | 29     | 1.93                       | -2.07                 | 1.22                            | 0               | 3               | 25              | 2                             | 3  | ne.               | Jno. N. Hook.          |                       |
| Clemson College.....            | Oconee.....       | 850               | 17                        | 69.0                               | 4.8                        | 85       | *2      | 43                    | 29     | 2.21                       | -2.24                 | 0.98                            | 0               | 0               | 11              | 11                            | 8  | ne.               | Central Office.        |                       |
| Columbia.....                   | Richland.....     | 351               | 21                        | 72.0                               | 1.7                        | 91       | *2      | 49                    | 17     | 4.00                       | 0.60                  | 1.40                            | 0               | 3               | 13              | 2                             | 15 | ne.               | P. C. McCall.          |                       |
| Conway.....                     | Horry.....        | 25                | 16                        | 71.0                               | 0.9                        | 91       | *2      | 49                    | 18     | 4.00                       | 0.60                  | 1.40                            | 0               | 3               | 13              | 2                             | 15 | ne.               | D. C. Quattlebaum.     |                       |
| Darlington.....                 | Darlington.....   | 175               | 13                        | 72.2                               | 0.9                        | 90       | *3      | 45                    | *17    | 40                         | 3.93                  | +0.69                           | 1.78            | 0               | 5               | 11                            | 12 | 7                 | ne.                    | A. E. Rowell.         |
| Dillon.....                     | Marion.....       | 100               | 4                         | 72.2                               | 0.9                        | 91       | *3      | 45                    | 18     | 4.43                       | 2.35                  | 2.35                            | 0               | 6               | 11              | 12                            | 7  | ne.               | H. B. McCall.          |                       |
| Effingham.....                  | Florence.....     | 106               | 10                        | 72.2                               | 0.9                        | 91       | *3      | 45                    | 18     | 4.43                       | 2.35                  | 2.35                            | 0               | 6               | 11              | 12                            | 7  | ne.               | D. B. Gilliland, jr.   |                       |
| Ferguson.....                   | Berkeley.....     | 51                | 1                         | 72.2                               | 0.9                        | 91       | *3      | 45                    | 18     | 4.43                       | 2.35                  | 2.35                            | 0               | 6               | 11              | 12                            | 7  | ne.               | H. K. Gilbert.         |                       |
| Florence.....                   | Florence.....     | 130               | 20                        | 73.0                               | 1.6                        | 93       | *2      | 48                    | *17    | 37                         | 6.77                  | +3.09                           | 4.25            | 0               | 4               | 14                            | 8  | 8                 | ne.                    | Wm. Alden James.      |
| Georgetown.....                 | Georgetown.....   | 12                | 15                        | 74.8                               | -0.9                       | 90       | 2       | 54                    | 17     | 0.78                       | -3.02                 | 0.69                            | 0               | 3               | 14              | 14                            | 2  | ne.               | Mrs. S. A. Crittenden. |                       |
| Greenville.....                 | Greenville.....   | 989               | 10                        | 69.4                               | 1.1                        | 87       | *2      | 45                    | 30     | 3.82                       | -0.45                 | 2.20                            | 0               | 4               | 19              | 11                            | 0  | ne.               | M. M. Calhoun.         |                       |
| Greenville.....                 | Greenville.....   | 989               | 10                        | 69.4                               | 1.1                        | 87       | *2      | 45                    | 30     | 3.82                       | -0.45                 | 2.20                            | 0               | 4               | 19              | 11                            | 0  | ne.               | J. A. Weiner.          |                       |
| Greenwood.....                  | Greenwood.....    | 671               | 20                        | 71.0                               | 3.4                        | 91       | 2       | 46                    | *29    | 31                         | 1.88                  | 2.27                            | 0.72            | 0               | 4               | 18                            | 0  | 12                | ne.                    | W. E. Haskell, jr.    |
| Heath Springs.....              | Lancaster.....    | 568               | 7                         | 73.3                               | 0.9                        | 92       | *2      | 48                    | 17     | 2.19                       | 1.44                  | 0.77                            | 0               | 5               | 11              | 6                             | 13 | ne.               | J. A. Scott.           |                       |
| Jacksonboro.....                | Colleton.....     | 13                | 0                         | 73.3                               | 0.9                        | 92       | *2      | 48                    | 17     | 2.19                       | 1.44                  | 0.77                            | 0               | 5               | 11              | 6                             | 13 | ne.               | A. O. Matthews.        |                       |
| Kingstree (1).....              | Williamsburg..... | 54                | 20                        | 73.3                               | -1.8                       | 87       | *2      | 54                    | *18    | 26                         | 4.00                  | +0.18                           | 2.20            | 0               | 6               | 18                            | 3  | 9                 | ne.                    | John T. Boggs.        |
| Kingstree (2).....              | Williamsburg..... | 54                | 20                        | 73.3                               | -1.8                       | 87       | *2      | 54                    | *18    | 26                         | 4.00                  | +0.18                           | 2.20            | 0               | 6               | 18                            | 3  | 9                 | ne.                    | John M. Sease, M. D.  |
| Liberty.....                    | Pickens.....      | 900               | 14                        | 71.4                               | -1.5                       | 89       | 2       | 40                    | 29     | 3.2                        | -2.44                 | 1.60                            | 0               | 5               | 20              | 7                             | 3  | ne.               | W. G. Peterson.        |                       |
| Little Mountain.....            | Newberry.....     | 930               | 15                        | 71.6                               | 1.7                        | 91       | *2      | 49                    | 17     | 31                         | 1.68                  | 2.61                            | 1.03            | 0               | 2               | 21                            | 2  | 7                 | ne.                    | John M. Ward.         |
| Newberry.....                   | Newberry.....     | 502               | 4                         | 71.4                               | -2.7                       | 92       | 2       | 40                    | 29     | 3.2                        | -2.44                 | 1.60                            | 0               | 5               | 20              | 7                             | 3  | ne.               | Miss E. P. Ravenel.    |                       |
| Pelzer.....                     | Anderson.....     | 873               | 3                         | 71.4                               | -2.7                       | 92       | 2       | 40                    | 29     | 3.2                        | -2.44                 | 1.60                            | 0               | 5               | 20              | 7                             | 3  | ne.               | G. T. Lewis.           |                       |
| Pinopolis.....                  | Berkeley.....     | 54                | 15                        | 71.4                               | -2.7                       | 92       | 2       | 40                    | 29     | 3.2                        | -2.44                 | 1.60                            | 0               | 5               | 20              | 7                             | 3  | ne.               | J. S. Wadman.          |                       |
| St. George.....                 | Dorchester.....   | 103               | 20                        | 75.5                               | +0.6                       | 90       | 7       | 58                    | 18     | 2.80                       | -1.68                 | 0.95                            | 0               | 4               | 25              | 0                             | 5  | ne.               | Alvin Etheridge.       |                       |
| St. Matthews.....               | Calhoun.....      | 269               | 20                        | 71.1                               | -3.7                       | 88       | 3       | 40                    | 17     | 2.35                       | -1.24                 | 0.80                            | 0               | 6               | 19              | 0                             | 11 | ne.               | E. W. Jeter.           |                       |
| Saluda.....                     | Saluda.....       | 536               | 6                         | 72.3                               | 0.9                        | 93       | 2       | 45                    | *17    | 37                         | 1.73                  | 0.74                            | 0.74            | 0               | 4               | 17                            | 2  | 10                | ne.                    | Weather Bureau.       |
| Santee.....                     | Union.....        | 512               | 14                        | 70.7                               | -2.3                       | 90       | 7       | 44                    | 20     | 1.75                       | -1.77                 | 0.69                            | 0               | 3               | 10              | 17                            | 3  | ne.               | W. G. Walker.          |                       |
| Savannah, Ga.....               | Chatham.....      | 71                | 39                        | 75.4                               | 0.0                        | 91       | 7       | 58                    | 30     | 9.05                       | +3.49                 | 4.26                            | 0               | 12              | 9               | 8                             | 13 | ne.               | J. J. Lucas.           |                       |
| Smiths Mills.....               | Williamsburg..... | 62                | 13                        | 70.9                               | 2.1                        | 87       | 4       | 49                    | 17     | 31                         | 1.68                  | 2.61                            | 1.03            | 0               | 2               | 21                            | 2  | 7                 | ne.                    | F. P. Robinson.       |
| Society Hill.....               | Darlington.....   | 192               | 17                        | 70.9                               | 2.1                        | 87       | 4       | 49                    | 17     | 31                         | 1.68                  | 2.61                            | 1.03            | 0               | 2               | 21                            | 2  | 7                 | ne.                    | W. W. Anderson, M. D. |
| Spartanburg.....                | Spartanburg.....  | 875               | 17                        | 71.6                               | -0.7                       | 92       | 13      | 43                    | 29     | 49                         | 1.90                  | 2.17                            | 1.15            | 0               | 3               | 13                            | 0  | 17                | ne.                    | Miss E. H. Gadsden.   |
| Stateburg.....                  | Sumter.....       | 500               | 31                        | 73.9                               | -1.2                       | 91       | 7       | 51                    | *17    | 31                         | 2.62                  | -1.43                           | 1.67            | 0               | 5               | 4                             | 22 | 4                 | ne.                    | C. A. Long.           |
| Summerville.....                | Dorchester.....   | 75                | 11                        | 73.9                               | -1.2                       | 91       | 7       | 51                    | *17    | 31                         | 2.62                  | -1.43                           | 1.67            | 0               | 5               | 4                             | 22 | 4                 | ne.                    | Etsell Gaillard.      |
| Trenton.....                    | Edgefield.....    | 620               | 15                        | 70.8                               | -5.1                       | 86       | *6      | 48                    | *29    | 26                         | 2.32                  | -1.01                           | 0.68            | 0               | 3               | 6                             | 7  | 14                | ne.                    | J. A. Westenberg.     |
| Trial.....                      | Berkeley.....     | 85                | 22                        | 72.7                               | -0.9                       | 91       | 7       | 48                    | 17     | 34                         | 1.54                  | -2.37                           | 0.60            | 0               | 0               | 4                             | 12 | 12                | ne.                    | Weather Bureau.       |
| Walterboro.....                 | Colleton.....     | 69                | 5                         | 75.0                               | 0.9                        | 94       | *2      | 51                    | 17     | 34                         | 2.40                  | 1.55                            | 0               | 8               | 11              | 14                            | 5  | ne.               | John W. Sigler.        |                       |
| Wilmington, N. C.....           | New Hanover.....  | 52                | 39                        | 72.0                               | 1.1                        | 88       | 2       | 55                    | 30     | 26                         | 1.45                  | 3.82                            | 0.65            | 0               | 3               | 25                            | 5  | 0                 | ne.                    | E. R. Rivers.         |
| Windsboro.....                  | Fairfield.....    | 545               | 19                        | 72.0                               | -1.1                       | 90       | 12      | 48                    | 30     | 28                         | 2.80                  | -0.67                           | 1.40            | 0               | 3               | 24                            | 2  | 3                 | ne.                    | J. G. Hutson.         |
| Winthrop College.....           | York.....         | 690               | 9                         | 71.0                               | 0.9                        | 92       | 2       | 44                    | 30     | 32                         | 1.63                  | 0.91                            | 0               | 4               | 24              | 2                             | 10 | ne.               |                        |                       |
| Yemassee.....                   | Beaufort.....     | 23                | 13                        | 72.7                               | 3.4                        | 90       | 21      | 50                    | 18     | 34                         | 3.55                  | 0.71                            | 2.19            | 0               | 6               | 18                            | 2  | 10                | ne.                    |                       |
| Yorkville.....                  | York.....         | 680               | 20                        | 72.7                               | 3.4                        | 90       | 21      | 50                    | 18     | 34                         | 3.55                  | 0.71                            | 2.19            | 0               | 6               | 18                            | 2  | 10                | ne.                    |                       |
| Means, extremes, and dates..... |                   |                   |                           | 72.4                               | -1.8                       | 94       | *2      | 40                    | 29     | 40                         | 2.79                  | -1.14                           | 4.60            | 0               | 4               | 15                            | 9  | 6                 | ne.                    |                       |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. ‡ Maximum thermometer not standard. † Minimum thermometer not standard. § Exposed not standard. \* On other dates also. a. Indicates 1 day missing; b. 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING SEPTEMBER, 1908.

At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the bulletin for the preceding day on which it nearly always occurs. The data for Sundays and Week-ends taken on Monday mornings and Monday evenings respectively.



TOTAL PRECIPITATION FOR SEPTEMBER, 1905



## DAILY PRECIPITATION FOR SOUTH CAROLINA, SEPTEMBER, 1908.

| STATIONS.         | DAY OF MONTH. |     |     |     |      |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      |      |      | Total. |      |
|-------------------|---------------|-----|-----|-----|------|------|------|------|-----|------|-----|----|-----|----|-----|-----|----|----|----|----|----|----|----|----|----|-----|------|------|------|------|------|--------|------|
|                   | 1             | 2   | 3   | 4   | 5    | 6    | 7    | 8    | 9   | 10   | 11  | 12 | 13  | 14 | 15  | 16  | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26  | 27   | 28   | 29   | 30   | 31   |        |      |
| Aiken             |               |     |     |     |      |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | 1.0  | 1.15 | .40  |      |      | 1.65   |      |
| Allendale*        |               |     |     |     | .58  | .15  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .80  |      |      |      | 1.81 |        |      |
| Anderson          |               |     |     |     | 2.25 | .03  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .44  |      |      |      | 2.74 |        |      |
| Augusta, Ga.      |               |     |     | .23 | .06  | T.   |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | 1.6  | 1.52 | .47  |      | 2.44 |        |      |
| Barksdale         |               |     |     |     |      |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      |      |      |        |      |
| Batesburg*        |               |     | .02 |     | .34  | .35  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .41  | .36  | .44  |      | 1.92 |        |      |
| Beaufort          |               |     |     |     | .27  | .16  |      | T.   |     | .26  |     |    |     | T. |     |     |    |    |    |    |    |    |    |    |    | .50 | 1.05 | .38  |      |      | 2.62 |        |      |
| Bennettsville     |               |     |     |     | 1.31 |      | .10  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .55  | .06  |      |      | 2.02 |        |      |
| Blackville*       |               |     | .60 |     | .20  | .45  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .52  | 2.47 | .03  |      | 4.30 |        |      |
| Blairs*           |               |     |     |     |      | .04  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .08  | .40  | .60  |      | 2.02 |        |      |
| Bowman            |               |     |     |     |      |      | .04  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | T.   | .68  | .17  |      | 0.85 |        |      |
| Calhoun Falls*    |               |     |     |     | 2.84 | .47  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .13  | .56  | .11  |      | 4.13 |        |      |
| Camden (1)        |               |     |     |     | 2.19 |      | .03  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .28  | .38  |      |      | 6.00 |        |      |
| Camden (2)*       |               |     |     |     |      | 1.78 |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .30  | 4.60 | .39  |      | 6.68 |        |      |
| Catawba*          |               |     |     |     | .04  | .52  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .11  | .30  | .8   |      | 1.32 |        |      |
| Chappells*        |               |     |     |     |      |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .12  | .46  | .54  |      |      |        |      |
| Charleston        |               |     |     |     | T.   |      | .01  |      | T.  |      |     |    |     | T. |     |     |    |    |    |    |    |    |    |    |    |     | .15  |      | .01  | .75  | .13  | 1.66   |      |
| Charlotte, N. C.  |               |     |     |     | .97  | T.   | T.   |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     | .51  | .02  |      |      | 1.56 |        |      |
| Cheraw (1)*       |               |     |     |     |      | 1.4  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      | .20  |      | 2.61 |        |      |
| Cheraw (2)*       |               |     |     |     |      | T.   | 1.36 |      | T.  |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .15  | .22  |      |      | 2.53   |      |
| Clarks Hill       |               |     |     |     | .37  |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .28  | 1.00 | .28  |      | 1.93   |      |
| Clemson College   |               |     |     |     | 1.22 |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .87  | .73  |      |      | 1.82   |      |
| Columbia          |               |     |     | .23 | .11  | .14  | .07  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .14  |      |      |      | 2.21   |      |
| Conway*           |               |     |     |     |      | 1.30 |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | 1.30 | 1.40 | T.   |      | 4.00   |      |
| Darlington        |               |     |     |     |      | 1.78 |      | .95  |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .22  | 1.66 | .22  |      | 3.93   |      |
| Dillon            |               | .01 |     |     |      | T.   | 2.35 | .65  | .24 |      |     |    |     | T. |     |     |    |    |    |    |    |    |    |    |    |     |      | .23  | .26  |      |      | 4.43   |      |
| Effingham*        |               |     |     |     |      | 1.50 |      | 1.80 |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      | .75  |      |      | 4.05   |      |
| Ferguson*         |               |     | T.  |     |      |      | .52  | .10  |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      |      |      | 0.62   |      |
| Florence*         |               |     |     |     |      | 4.25 |      | .22  |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | T.   |      |      |      | 6.77   |      |
| Georgetown        |               |     | T.  |     |      | .07  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .01  | .02  |      |      | 0.78   |      |
| Greenville*       |               |     |     |     | .70  | 2.20 |      | T.   |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      |      |      | 3.82   |      |
| Greenwood*        |               |     |     |     | .54  | .72  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      | .52  |      |      | 1.88   |      |
| Heath Springs     |               |     |     |     |      |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      |      |      |        |      |
| Jacksonboro       |               |     |     |     |      |      |      | T.   |     | .09  |     |    |     | T. |     |     |    |    |    |    |    |    |    |    |    |     | .02  |      | .50  | .44  | .14  |        | 2.19 |
| Kingstree (1)*    |               |     |     |     |      | 2.20 |      | .30  |     |      |     |    |     |    | .15 |     |    |    |    |    |    |    |    |    |    |     |      | .06  | 1.02 | .27  |      | 4.00   |      |
| Kingstree (2)*    |               |     |     |     |      | 2.25 |      | .27  |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | T.   | 1.10 | .20  |      | 3.82   |      |
| Liberty           |               |     |     |     | .60  |      | 1.60 |      | .40 |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .60  | .10  |      |      | 3.30   |      |
| Little Mountain   |               |     |     |     |      | .40  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .40  | .37  |      |      | 1.17   |      |
| Newberry          |               |     | .01 |     | .34  | .74  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | .36  | .48  |      |      | 1.94   |      |
| Pelzer*           |               |     |     |     |      | 1.20 | 1.16 |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      | T.   | .48  |      |      | 2.90   |      |
| Pinopolis         |               |     |     |     |      |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      |      |      |        |      |
| St. George*       |               |     |     |     | .95  |      | .95  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      | .30  | .60  |      |        | 2.86 |
| St. Matthews*     |               |     |     |     |      |      | .80  |      | .60 |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      | .13  | .40  | .30  |        | 2.35 |
| Saluda            |               |     |     |     |      |      | .21  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      | .43  | .74  |      |        | 1.73 |
| Santee            |               |     |     |     |      | .61  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      | .07  | .39  |      |        | 1.75 |
| Savannah, Ga.     |               |     |     |     | 1.19 | .06  | .25  |      | .25 | 1.78 | .52 |    |     | T. | .03 |     |    |    |    |    |    |    |    |    |    |     |      | 14   | 3.07 | 1.73 | .01  | .02    | 9.05 |
| Smiths Mills*     |               |     |     |     |      | 1.32 |      |      |     |      |     |    |     |    |     | .10 |    |    |    |    |    |    |    |    |    |     |      |      | .11  | .60  | .42  |        | 2.55 |
| Society Hill      |               |     |     |     |      | .03  |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | .65  |      |        | 1.68 |
| Spartanburg*      |               |     |     |     |      | .25  | .90  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | .75  |      | 1.90   |      |
| Stateburg         |               |     |     |     |      |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      |      |      |        |      |
| Summerville       |               |     |     |     |      | .14  |      | T.   | T.  |      | .02 |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      | .55  | 1.67 | .24  |        | 2.62 |
| Trenton           |               |     |     |     |      | 1.08 |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | .91  | .35  |        | 2.32 |
| Tryon             |               |     |     |     |      | .45  |      |      | .24 |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | .60  | .01  |        | 1.54 |
| Walterboro        |               |     |     |     |      | T.   | .14  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | 14   |      |        | 2.40 |
| Wilmington, N. C. |               |     |     |     |      | T.   | .64  |      | .07 | .01  | .02 |    | .02 | T. | T.  |     |    |    |    |    |    |    |    |    |    |     |      |      | .65  | .73  | .01  |        | 1.45 |
| Windsor           |               |     |     |     |      | 1.40 |      | T.   |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | .60  | .80  |        | 2.80 |
| Winthrop College  |               |     |     |     |      | .12  | .01  |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | .33  | .27  |        | 1.63 |
| Yemassee*         |               |     |     |     |      | .66  | .47  |      |     | .19  |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | .94  |      |        | 3.55 |
| Yorkville         |               |     |     |     |      |      |      |      |     |      |     |    |     |    |     |     |    |    |    |    |    |    |    |    |    |     |      |      |      | 2.00 | .11  |        |      |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours.



FOUR  
CASA

U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR OCTOBER, 1908

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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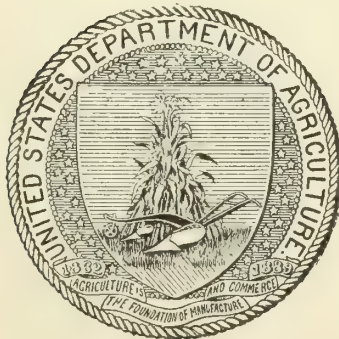
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR

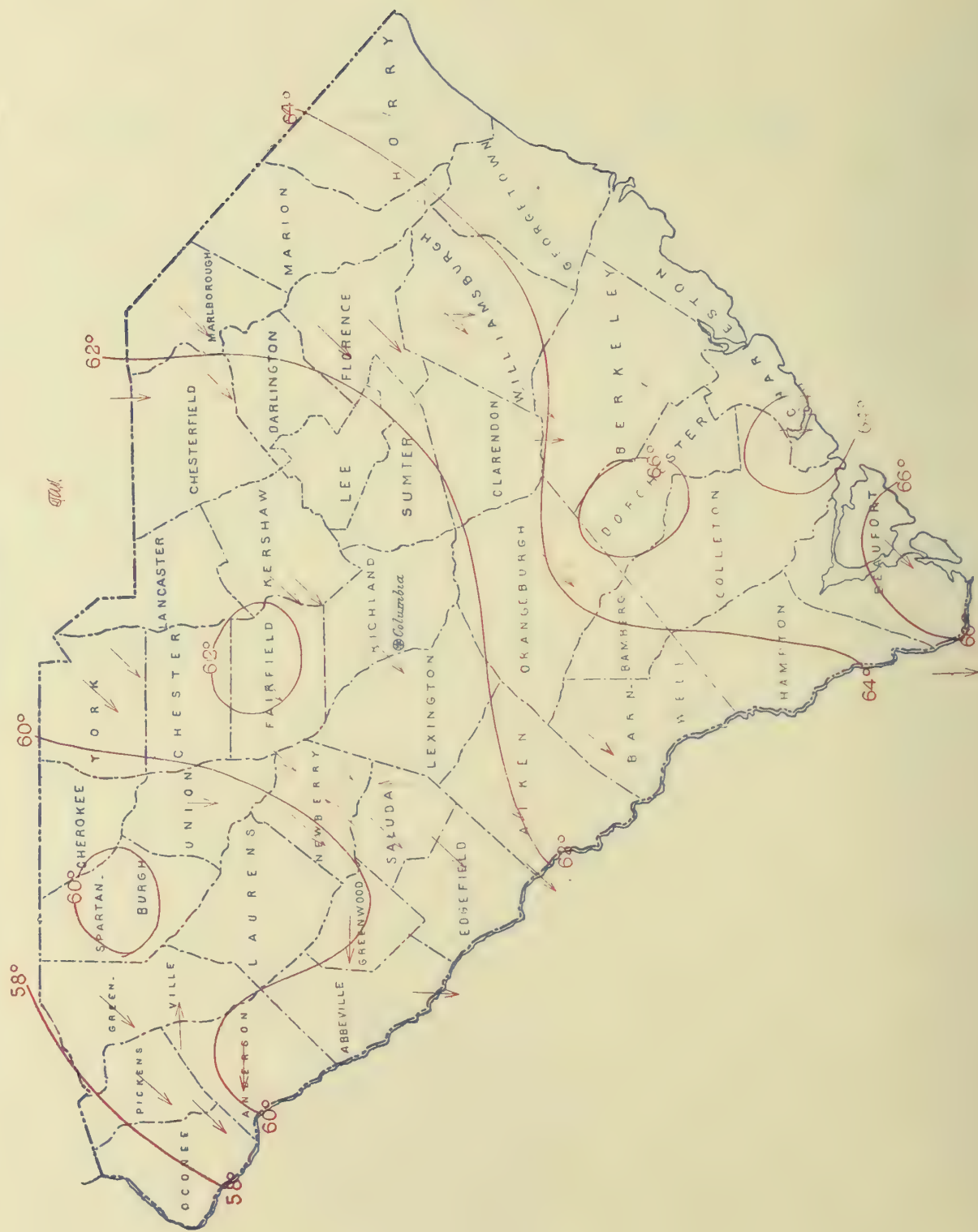


PITTSBURG, PA.  
WEATHER BUREAU OFFICE

NOVEMBER 25, 1908

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR OCTOBER, 1908

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

Vol. XI.

COLUMBIA, S. C., OCTOBER, 1908.

No. 10.

## GENERAL SUMMARY.

Except at a few stations in the eastern division, the mean temperature was uniformly below the normal; the precipitation and sunshine were generally in excess of the normal. As a whole the month was cool, with ample rainfall and a small percentage of cloudiness. The mean temperature was the same as in October, 1903, and was slightly higher than in October, 1895, 1896, 1906, or 1907; it was lower than in the other Octobers for last 15-year period. The warmest October was in 1900, when the mean was 67.6°; the coolest was in 1907, when the mean was 61.2°. Higher temperatures were recorded in every October since 1894, than this year, and during the same period lower minimum temperatures occurred in every year except 1897. The average precipitation was exceeded in amount only in October, 1894, 1899, and 1902. The heaviest rainfall for any October was recorded in 1899, and the least in October, 1907, when the average precipitation was only 0.73 of an inch.

The mean temperature was between 66° and 62° in the eastern division, and between 62° and 58° in the western division. The lower portion of Beaufort County having been, as usual, the warmest, and Greenville County the coolest regions. The first five days were unusually cool, with light frosts in the western division. The low temperatures continued until the 17th, and a decided cool wave, causing frosts to within a few miles of the coast, occurred on the last three days. The highest temperatures were recorded generally on the 18th and 19th. The period from the 23d to the 26th gave the greatest departures above the normal. The 14th, 15th and 30th were the coolest days.

The precipitation was the heaviest in the northeastern portion, especially in Horry and Marion counties, where monthly amounts of from 6 to 8 inches were received. The extreme northwestern portion also received over 6 inches. The rainfall was deficient in the coast counties south of Georgetown County, where the monthly amounts were generally less than 2 inches. There were three rainy periods well distributed thruout the month. The shortest occurred on the 8th-9th with moderate precipitation, the second from the 22d to the 24th, inclusive, with heavy precipitation in places, and the third from the 27th to the 29th, inclusive, with generally heavy precipitation that caused flood stages in the Catawba-Wateree River. During the intervening time clear weather prevailed over the entire State.

Toward evening of the 19th the sky became smoky on the northern and northeastern horizon, and on the 20th the sun was nearly obscured thruout the day by dense smoke and by dense fog along the coast. Scarcely a trace of smoke was visible on the 21st.

## TEMPERATURE.

The mean temperature was 62.0°, which is 1.4° below the normal. The highest local mean was 66.8°, at Beaufort; the lowest was 58.2, at Greenville. The monthly temperature extremes were 80°, at Dillon and Walterboro on the 19th, and 35° at Bowman on the 30th, making the State range 54°. The greatest local monthly range was 50°, at Spartanburg; the least was 35°, at Charleston. The mean of the daily maximum temperatures was 73.1°, and of the daily minimum temperatures was 51.0°, making the average daily range 22.1°.

## PRECIPITATION.

The average precipitation was 4.22 inches, which is 1.47 inches above the normal. The greatest local monthly amount was 9.42 inches, at Conway; the least was 1.41 inches, at Walterboro. The greatest 24-hour rainfall was 3.32 inches, at Conway on the 22d-23d. The average number of days with rain was 6, ranging from 2 days at Ferguson to 9 days at Batesburg, Cheraw (1), Greenville, Pelzer, Spartanburg and Yemassee.

EXCESSIVE PRECIPITATION.—At Aiken on the 9th, 2.91 inches in 24 hours; at Beaufort on the 1st, 2.70 inches in 3 hours; at Conway on the 22d-23d, 3.32 inches in 22 hours; at Dillon on the 23d, 2.73 inches in 24 hours; at Yemassee on the 9th, 3.02 inches in 24 hours.

## WIND.

The prevailing wind was from the northeast at 27 stations, from the north at 10 stations, from the east at 3 stations, from the southwest at 2 stations and from the south and west at 1 station each.

## CLOUDINESS.

The average number of clear days was 19, of partly cloudy days 6, and of cloudy days 6.

## MISCELLANEOUS PHENOMENA.

SOLAR HALOS.—At Aiken, Liberty, and Santuc, on the 8th.

HIGH WINDS.—At Charleston on the 2d; at Liberty on the 22d, 23d; at Trial on the 21st, 22d.

DENSE SMOKE.—At Blackville on the 19th; at Camden, Clarks Hill, Columbia, Darlington, Georgetown, Liberty, Saluda, Santuc, Trial, Winthrop College, on the 20th; at Cheraw on the 18th, 20th; at Newberry on the 19th, 20th.

DENSE FOGS.—At Camden on the 10th, 11th; at Charleston on the 20th; at Clarks Hill, Columbia, on the 10th; at Georgetown on the 26th, 27th; at Jacksonboro on the 20th, 26th; at Liberty on the 10th, 11th, 24th; at Newberry, Santuc, Winthrop College, on the 11th.

LIGHT FROST.—The first light frost of the season occurred during the month at the following stations: At Blackville on the 29th; at Bowman, Trial, on the 15th; at Cheraw, Jacksonboro on the 13th; at Clarks Hill, Liberty, Santuc, Winthrop College, on the 4th; at Greenville, Saluda, on the 3d.

THUNDERSTORMS.—Thunderstorms occurred on six days, with two periods of maximum frequency, namely, on the 8th, 9th, 10th, and on the 27th, 28th, 29th, when from one to three of the six stations that recorded thunderstorms reported their occurrence.



## PRESSURE AND WIND TABLE FOR OCTOBER, 1908.

| Stations.             | Barometric pressure. |          |       |         |       | Wind.           |                 |                   |            |       |
|-----------------------|----------------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.                | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |                      |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.          | 30.09                | 30.43    | 13    | 29.75   | 28    | 4440            | 6.0             | 22                | ne.        | 21    |
| Charleston            | 30.06                | 30.35    | 18    | 29.69   | 29    | 8047            | 10.8            | 30                | ne.        | 20    |
| Charlotte, N. C.      | 30.12                | 30.54    | 13    | 29.77   | 29    | 4753            | 6.4             | 22                | ne.        | 23    |
| Columbia              | 30.09                | 30.46    | 13    | 29.74   | 29    | 5014            | 6.7             | 21                | ne.        | 3     |
| Savannah, Ga.         | 30.07                | 30.33    | 13    | 29.69   | 28    | 4988            | 6.7             | 23                | s.w.       | 28    |
| Wilmington, N. C.     | 30.07                | 30.43    | 13    | 29.61   | 29    | 5899            | 7.4             | 27                | e.         | 23    |
| Averages or extremes. | 30.08                | 30.54    | 13    | 29.61   | 29    | 5524            | 7.4             | 30                | ne.        | 2     |

## RIVER GAGE READINGS, OCTOBER, 1908.

| Stations.        | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|--------------|-------|----------|-------|---------|-------|
| Blairs           | 14           | 1.4   | 6.6      | 30    | 0.1     | 8     |
| Calhoun Falls.   | 15           | 2.6   | 5.0      | 30    | 1.0     | *13   |
| Camden           | 24           | 11.4  | 26.3     | 26    | 6.0     | 20    |
| Catawba          | 11           | 3.9   | 12.7     | 25    | 1.3     | 4     |
| Chappells        | 14           | 3.5   | 11.0     | 30    | 2.0     | 19    |
| Cheraw           | 27           | 8.1   | 24.4     | 25    | 1.6     | 9     |
| Columbia         | 15           | 3.0   | 9.5      | 30    | 1.0     | *5    |
| Effingham        | 12           | 4.1   | 5.5      | 31    | 3.3     | *15   |
| Ferguson         | 12           | 9.1   | 12.6     | 31    | 6.5     | *7    |
| Kingstree        | 12           | 0.2   | 1.0      | 31    | 0.0     | *18   |
| Mt. Holly, N. C. | 15           | 2.4   | 8.0      | 24    | 1.8     | *1    |
| Pelzer           | 7            | 3.1   | 5.5      | 29    | 2.6     | *10   |
| Rimini           | 12           | 8.5   | 13.1     | 31    | 5.5     | 7     |
| Smiths Mills.    | 16           | 7.9   | 12.9     | 31    | 4.2     | 1     |

\*On other dates also.

## REMARKS BY OBSERVERS.

BEAUFORT: The month was pleasant, having had eighteen clear days. During the latter portion the sky was smoky, and heavy dews were noted each morning. —Miss E. G. RICE.

BOWMAN: The month was noteworthy for its pleasantness and small percentage of cloudiness, there having been 24 clear days. Light frosts occurred during the middle and near the close of the month, tho the resulting injury was slight. —B. O. EVANS.

LIBERTY: The smoke almost obscured the sun on the 20th. The weather was fine during the greater portion. The rainfall was heavy during the third decade. —JNO. T. BOGGS.

NEWBERRY: An unusually large meteor was observed to the northwestward at 7:35 p. m. on the 2d. The smoke was so dense on the 20th that it obscured the sun for a considerable time. Numerous light frosts occurred, but none was damaging. —W. G. PETERSON.

SANTUC: Clear weather predominated during the month, tho the rainfall was ample. The weather was generally cool, with light frost on two days that did no damage. —E. W. JETER.

SOCIETY HILL: The weather was favorable for harvesting all crops. The mean temperature was below the normal; the rainfall was in excess. —Maj. J. J. LUCAS.

SUMMERVILLE: The average relative humidity was 55 per cent. A slight earthquake tremor occurred at 11:10 p. m. of the 25th. —Miss E. H. GADSDEN.

TRENTON: The total precipitation since January 1st is 6.15 inches less than the average for the first ten months of the year. —C. A. LONG.

CLIMATOLOGY OF WINNSBORO, S. C.  
Temperature.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|------|------|------|------|------|-------|-------|------|-------|------|------|------|-------|
| 1887. |      |      |      |      | 72   |       |       |      |       |      |      |      |       |
| 1888. |      |      |      |      |      |       |       |      |       |      |      |      |       |
| 1889. | 44   | 42   | 52   | 61   | 73   | 70    | 79    | 76   | 64    | 60   | 54   | 53   | 61.3  |
| 1890. | 54   | 54   | 49   | 63   | 71   |       | 81    | 76   | 74    |      | 59   |      |       |
| 1891. |      |      | 51   | 67   | 72   | 81    | 79    | 81   | 70    | 64   | 52   | 50   |       |
| 1892. | 41   | 48   | 51   | 60   | 70   | 77    | 79    | 79   | 72    | 61   | 50   | 44   | 61.1  |
| 1893. | 36   | 41   | 52   | 67   | 70   | 77    |       |      |       |      |      |      |       |
| 1894. |      |      |      |      |      |       |       |      |       |      |      |      |       |
| 1895. |      |      |      |      |      |       |       |      |       |      |      |      |       |
| 1896. |      |      | 53   | 67   | 77   | 77    | 79    | 80   | 73    | 60   | 58   | 43   |       |
| 1897. | 38   | 48   | 55   | 60   | 61   | 77    | 79    | 78   | 75    | 64   | 52   | 40   | 61.9  |
| 1898. | 45   | 43   | 57   | 56   | 73   | 79    | 79    | 78   | 73    |      | 49   | 44   |       |
| 1899. | 43   | 41   | 53   | 57   | 71   | 77    | 77    | 74   | 70    | 61   | 53   | 43   | 60.3  |
| 1900. | 43   | 41   | 49   | 59   | 68   | 74    | 78    | 80   | 76    | 66   | 54   | 43   | 60.9  |
| 1901. | 45   | 43   | 51   | 54   | 71   | 77    | 82    | 79   | 73    | 62   | 48   | 41   | 60.5  |
| 1902. | 41   | 40   | 54   | 60   | 74   | 78    | 83    | 79   | 72    | 64   | 59   | 43   | 62.1  |
| 1903. | 39   | 46   | 59   | 59   | 70   | 74    | 81    | 82   | 73    | 63   | 52   | 41   | 61.6  |
| 1904. | 40   | 44   | 57   | 61   | 71   | 77    | 80    | 77   | 75    | 63   | 52   | 43   | 61.6  |
| 1905. | 40   | 46   | 58   | 63   | 74   | 79    | 80    | 77   | 75    | 64   | 53   | 42   | 61.9  |
| 1906. | 40   | 47   | 61   | 65   | 66   | 77    | 77    | 78   |       | 76   | 61   | 54   |       |
| 1907. | 53   | 45   | 61   | 55   | 63   | 75    | 81    | 79   | 75    | 61   | 51   | 45   | 62.5  |
| M'ns  | 43.3 | 45.1 | 53.6 | 60.8 | 71.4 | 76.7  | 79.7  | 78.9 | 73.3  | 63.4 | 53.7 | 45.6 | 62.0  |

## Precipitation.

| Year. | Jan. | Feb. | Mar. | Apr. | May.  | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|------|------|------|------|-------|-------|-------|------|-------|------|------|------|-------|
| 1888. |      |      |      |      |       |       |       | 3.64 | 13.23 | 4.65 | 1.32 | 3.26 |       |
| 1889. | 4.14 | 5.93 | 2.07 | 1.52 | 2.21  | 7.84  | 6.16  | 8.60 | 2.78  | 1.99 | 5.81 | 0.00 | 49.65 |
| 1890. | 1.30 | 3.24 | 1.35 | 1.10 | 3.60  |       | 7.26  | 7.95 | 9.29  |      | 1.84 |      |       |
| 1891. |      | 3.85 | 8.90 | 2.20 | 3.18  | 2.43  | 2.81  | 4.85 | 1.84  | 0.50 | 4.07 | 2.49 |       |
| 1892. | 7.06 | 5.09 | 3.17 | 1.95 | 3.17  | 3.16  | 4.70  | 3.42 | 2.71  | 0.27 | 0.90 | 3.02 | 38.32 |
| 1893. |      | 4.06 | 1.02 |      |       |       |       |      |       |      |      |      |       |
| 1894. |      |      |      |      |       |       |       |      |       |      |      |      |       |
| 1895. |      |      |      |      |       |       |       |      |       |      |      |      |       |
| 1896. |      |      | 0.80 | 0.91 | 1.77  | 3.08  | 9.94  | 1.05 | 1.73  | 1.16 | 3.20 | 4.94 |       |
| 1897. | 2.59 | 7.51 | 3.04 | 2.82 | 2.07  | 3.34  | 3.38  | 1.27 | 1.10  | 1.50 | 1.16 | 2.72 | 32.50 |
| 1898. | 2.43 | 0.59 | 4.96 | 4.26 | 1.00  | 6.40  | 6.83  | 7.90 | 1.33  |      | 4.57 | 1.26 |       |
| 1899. | 4.10 | 8.67 | 5.51 | 1.42 | 1.62  | 1.80  | 2.12  | 4.12 | 2.24  | 7.88 | 1.73 | 3.06 | 44.17 |
| 1900. | 1.61 | 5.85 | 4.44 | 6.65 | 2.25  | 4.30  | 6.18  | 0.77 | 1.55  | 2.70 | 5.35 | 5.34 | 47.35 |
| 1901. | 2.26 | 1.28 | 3.89 | 6.59 | 12.09 | 4.42  | 0.61  | 9.16 | 4.35  | 1.36 | 0.63 | 3.85 | 51.02 |
| 1902. | 3.02 | 4.03 | 2.83 | 2.20 | 2.20  | 6.78  | 0.71  | 5.54 | 2.51  | 7.34 | 3.26 | 2.74 | 43.16 |
| 1903. | 3.49 | 8.50 | 6.56 | 2.54 | 1.04  | 10.17 | 2.12  | 3.30 | 2.03  | 2.24 | 1.36 | 1.30 | 44.76 |
| 1904. | 2.92 | 3.20 | 2.08 | 2.05 | 3.12  | 1.03  | 4.04  | 4.96 | 0.80  | 0.87 | 3.01 | 3.70 | 32.74 |
| 1905. | 2.30 | 6.30 | 1.10 | 7.03 | 3.60  | 0.41  | 5.04  | 4.50 | 0.90  | 1.16 | 0.66 | 7.05 | 45.13 |
| 1906. | 5.70 | 1.48 | 7.99 | 1.65 | 1.85  | 7.46  | 3.54  |      | 2.55  | 3.35 | T.   | 1.18 |       |
| 1907. | 1.70 | 4.68 | 1.95 | 2.40 | 6.55  | 5.73  | 7.63  | 4.62 | 8.00  | 0.52 | 2.68 | 6.14 | 52.37 |
| M'ns  | 3.18 | 4.64 | 3.49 | 2.96 | 3.21  | 4.60  | 4.75  | 5.05 | 3.47  | 2.50 | 2.44 | 3.20 | 43.47 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest monthly mean. | Year. | Lowest monthly mean. | Year. | Greatest monthly. | Year. | Least monthly. | Year. |
| January   | 54                    | 1890  | 36                   | 1893  | 7.06              | 1892  | 1.30           | 1890  |
| February  | 54                    | *1890 | 38                   | 1905  | 8.67              | 1899  | 0.59           | 1898  |
| March     | 59                    | 1903  | 49                   | 1890  | 8.90              | 1891  | 0.80           | 1896  |
| April     | 67                    | 1891  | 54                   | 1901  | 7.03              | 1905  | 0.91           | 1896  |
| May       | 77                    | 1896  | 68                   | 1900  | 12.09             | 1901  | 1.00           | 1898  |
| June      | 81                    | 1891  | 70                   | 1889  | 10.17             | 1903  | 0.49           | 1905  |
| July      | 83                    | 1902  | 77                   | 1899  | 9.94              | 1896  | 0.65           | 1901  |
| August    | 82                    | 1903  | 74                   | 1883  | 9.50              | 1905  | 0.77           | 1900  |
| September | 70                    | *1891 | 69                   | 1888  | 13.53             | 1888  | 0.80           | 1904  |
| October   | 76                    | 1906  | 60                   | *1888 | 7.88              | 1899  | 0.27           | 1892  |
| November  | 61                    | 1906  | 48                   | 1901  | 5.81              | 1889  | T.             | 1906  |
| December  | 55                    | 1889  | 41                   | *1901 | 7.05              | 1905  | 0.00           | 1889  |

\*And other years.

## COMPARATIVE OCTOBER DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |                 |                |                | Average number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|-----------------|----------------|----------------|----------------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average.       | Greatest monthly. |                 | Least monthly. |                |                            |                            |
|           |              |               |               |          |          |                | Amount.           | Place.          | Amount.        | Place.         |                            |                            |
| 1894..... | 64.2         | 74.5          | 54.6          | 98       | 33       | 4.95           | 8.34              | Santuc.         | 0.47           | Branchville.   | 5                          | ne.                        |
| 1895..... | 61.3         | 74.2          | 48.8          | 95       | 28       | 1.15           | 2.71              | Society Hill.   | 0.00           | Allendale.     | 3                          | ne.                        |
| 1896..... | 61.3         | 74.1          | 51.0          | 91       | 28       | 1.41           | 2.75              | Spartansburg.   | 0.38           | Allendale.     | 4                          | ne.                        |
| 1897..... | 65.8         | 76.2          | 55.4          | 96       | 35       | 3.23           | 7.04              | Charleston.     | 1.20           | Effingham.     | 5                          | ne.                        |
| 1898..... | 62.9         | 72.4          | 52.6          | 90       | 28       | 3.82           | 7.81              | Gillistonville. | 1.58           | Society Hill.  | 9                          | ne.                        |
| 1899..... | 64.2         | 74.0          | 54.3          | 91       | 34       | 5.00           | 9.63              | Blackville.     | 1.97           | Gaffney.       | 6                          | ne.                        |
| 1900..... | 67.6         | 76.6          | 58.6          | 95       | 33       | 3.65           | 8.44              | Smiths Mills.   | 1.79           | Florence.      | 0                          | ne.                        |
| 1901..... | 62.4         | 74.9          | 50.0          | 92       | 29       | 0.89           | 2.86              | Trenton.        | T              | Georgetown.    | 3                          | ne.                        |
| 1902..... | 63.2         | 74.3          | 52.0          | 95       | 30       | 4.40           | 7.34              | Batesburg.      | 2.24           | Anderson.      | 7                          | ne.                        |
| 1903..... | 62.0         | 74.3          | 49.6          | 93       | 25       | 2.63           | 4.68              | Darlington.     | 0.86           | Calhoun Falls. | 5                          | n.                         |
| 1904..... | 62.4         | 74.8          | 49.9          | 98       | 26       | 1.10           | 4.75              | Charleston.     | 0.00           | Walhalla.      | 3                          | ut.                        |
| 1905..... | 64.2         | 75.8          | 52.5          | 93       | 29       | 1.97           | 5.20              | Liberty.        | 0.60           | St. George.    | 6                          | ne.                        |
| 1906..... | 61.9         | 71.7          | 52.1          | 90       | 24       | 3.69           | 12.15             | Georgetown.     | 0.84           | Bennettsville. | 7                          | ne.                        |
| 1907..... | 61.2         | 72.9          | 49.5          | 91       | 28       | 0.73           | 2.32              | Beaufort.       | 0.00           | Aiken.         | 3                          | ne.                        |
| 1908..... | 62.0         | 73.1          | 51.0          | 89       | 35       | 4.22           | 9.42              | Conway.         | 1.41           | Walterboro.    | 6                          | ne.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF OCTOBER, 1908.

| STATIONS.                   | Counties.     | Elevation, feet. | Length of record, years. | Temperature—in degrees Fahrenheit. |                            |          |         |       |                   | Precipitation—in inches. |                            |                        |                            | Sky.               |                       |                     |                    | Remarks.                 |                    |
|-----------------------------|---------------|------------------|--------------------------|------------------------------------|----------------------------|----------|---------|-------|-------------------|--------------------------|----------------------------|------------------------|----------------------------|--------------------|-----------------------|---------------------|--------------------|--------------------------|--------------------|
|                             |               |                  |                          | Month.                             | Departure from the normal. | Highest. | Lowest. | Date. | Unrecorded range. | Total.                   | Departure from the normal. | Greatest No. of hours. | Total snowfall, in inches. | Number rainy days. | Number overcast days. | Number cloudy days. | Number clear days. |                          |                    |
| Aiken.                      | Aiken.        | 505              | 24                       | 62.2                               | 1.7                        | 86       | 19      | 39    | 40                | 4.72                     | -2.12                      | 1.00                   | 0                          | 4                  | 22                    | 5                   | 4                  | ne. C. F. McAdams, M. D. |                    |
| Academics.                  | Barnwell.     | 186              | 20                       | 63.6                               | 1.0                        | 80       | *18     | 43    | 15                | 37                       | -2.11                      | 1.20                   | 0                          | 3                  | 20                    | 5                   | 6                  | A. R. Hiers.             |                    |
| Anderson.                   | Anderson.     | 764              | 7                        | 60.4                               | 1.2                        | 87       | 10      | 38    | 40                | 5.57                     | -2.03                      | 1.31                   | 0                          | 6                  | 21                    | 2                   | 8                  | H. H. Russell.           |                    |
| Augusta, Ga.                | Richmond.     | 134              | 37                       | 61.7                               | 1.0                        | 85       | 10      | 10    | 34                | 3.06                     | +0.73                      | 1.16                   | 0                          | 8                  | 18                    | 6                   | 7                  | Weather Bureau.          |                    |
| Barksdale.                  | Laurens.      | 680              |                          |                                    |                            |          |         |       |                   |                          |                            |                        |                            |                    |                       |                     |                    | J. T. Garrett.           |                    |
| Batesburg.                  | Lexington.    | 656              | 20                       | 60.0                               | 2.0                        | 79       | 18      | 40    | 30                | 5.27                     | -2.20                      | 2.31                   | 0                          | 9                  | 21                    | 5                   | 5                  | E. J. Hite.              |                    |
| Beaufort.                   | Beaufort.     | 20               | 22                       | 66.8                               | 0.0                        | 84       | *9      | 48    | 30                | 4.77                     | +1.33                      | 2.70                   | 0                          | 7                  | 18                    | 11                  | 2                  | Miss E. G. Rice.         |                    |
| Bennettsville.              | Marlboro.     | 151              | 7                        | 64.4                               |                            | 82       | 8       | 11    | 31                | 34                       | 2.80                       | 1.00                   | 0                          | 6                  | 21                    | 2                   | 6                  | C. S. McCall.            |                    |
| Blackville.                 | Barnwell.     | 200              | 20                       | 62.2                               | 2.1                        | 86       | 18      | 40    | 20                | 37                       | 4.27                       | +2.53                  | 1.85                       | 0                  | 6                     | 21                  | 5                  | 5                        | Miss M. E. Lange.  |
| Blairs.                     | Fairfield.    | 243              | 3                        |                                    |                            |          |         |       |                   | 5.44                     | 1.64                       | 0.00                   | 0                          | 4                  | 20                    | 5                   | 6                  | T. S. McMeekin.          |                    |
| Bowman.                     | Orangeburg.   | 160              | 7                        | 64.1                               |                            | 81       | *7      | 35    | 30                | 2.74                     | 0.00                       | 0.00                   | 0                          | 5                  | 24                    | 4                   | 3                  | B. O. Evans.             |                    |
| Calhoun Falls.              | Abbeville.    | 508              | 15                       |                                    |                            |          |         |       |                   | 4.83                     | +2.07                      | 1.75                   | 0                          | 8                  | 23                    | 0                   | 8                  | P. J. Pfeiffer.          |                    |
| Camden (1).                 | Kershaw.      | 2                | 2                        | 61.8                               |                            | 84       | 10      | 41    | 30                | 4.43                     | 1.72                       | 0.00                   | 0                          | 7                  | 21                    | 5                   | 5                  | J. B. Mickle.            |                    |
| Camden (2).                 | Kershaw.      | 222              | 42                       |                                    |                            |          |         |       |                   | 4.00                     | 1.06                       | 0.00                   | 0                          | 7                  | 19                    | 5                   | 12                 | W. C. Brown.             |                    |
| Catawba.                    | York.         | 402              | 3                        |                                    |                            |          |         |       |                   | 5.40                     | 1.00                       | 0.00                   | 0                          | 7                  | 21                    | 3                   | 7                  | Jas. C. Farris.          |                    |
| Chapin.                     | Newberry.     | 402              | 3                        |                                    |                            |          |         |       |                   | 4.40                     | 1.28                       | 0.00                   | 0                          | 5                  | 17                    | 10                  | 4                  | W. R. Zimmerman.         |                    |
| Charleston.                 | Charleston.   | 48               | 39                       | 65.4                               | 1.7                        | 82       | 19      | 47    | 30                | 1.55                     | -2.38                      | 0.72                   | 0                          | 5                  | 15                    | 8                   | 8                  | Weather Bureau.          |                    |
| Charlotte, N. C.            | Mecklenburg.  | 868              | 30                       | 59.5                               | 1.0                        | 82       | 19      | 41    | 14                | 6.58                     | +1.43                      | 2.43                   | 0                          | 8                  | 18                    | 6                   | 7                  | Weather Bureau.          |                    |
| Cheraw (1).                 | Chesterfield. | 144              | 20                       | 60.4                               | 0.0                        | 83       | 10      | 41    | 30                | 4.06                     | +2.47                      | 1.55                   | 0                          | 9                  | 18                    | 3                   | 10                 | W. R. Godfrey.           |                    |
| Cheraw (2).                 | Chesterfield. | 87               | 15                       |                                    |                            |          |         |       |                   | 5.01                     | +2.35                      | 1.59                   | 0                          | 8                  | 19                    | 5                   | 7                  | Jno. H. Powe.            |                    |
| Chicks Hill.                | Edgefield.    | 500              | 0                        | 60.0                               |                            | 83       | *18     | 30    | *30               | 2.28                     | 1.95                       | 0.00                   | 0                          | 3                  |                       |                     |                    | Wm. S. Middleton.        |                    |
| Chapman College.            | Oconee.       | 850              | 17                       | 58.1                               | 3.0                        | 78       | 19      | 38    | *30               | 3.61                     | +2.97                      | 1.71                   | 0                          | 5                  | 25                    | 2                   | 4                  | Jno. N. Hook.            |                    |
| Columbia.                   | Richland.     | 351              | 21                       | 61.5                               | -2.5                       | 85       | 10      | 42    | 30                | 2.92                     | -0.07                      | 1.29                   | 0                          | 8                  | 18                    | 6                   | 7                  | Section Center.          |                    |
| Conway.                     | Horry.        | 25               | 16                       | 64.1                               |                            | 85       | *17     | 42    | 15                | 39                       | 0.42                       | -6.44                  | 3.32                       | 0                  | 8                     | 16                  | 0                  | 15                       | P. C. Quattlebaum. |
| Darlington.                 | Darlington.   | 175              | 13                       | 60.6                               |                            | 88       | 10      | 40    | *15               | 37                       | 4.70                       | +1.07                  | 1.40                       | 0                  | 6                     |                     |                    | D. C. McCall.            |                    |
| Dillon.                     | Marion.       | 100              | 4                        | 62.6                               |                            | 89       | 10      | 40    | 30                | 4.27                     | 2.73                       | 0.00                   | 0                          | 6                  |                       |                     |                    | A. E. Rowell.            |                    |
| Effingham.                  | Florence.     | 106              | 16                       |                                    |                            |          |         |       |                   | 2.95                     | +0.25                      | 1.00                   | 0                          | 6                  | 23                    | 0                   | 8                  | H. B. McCall.            |                    |
| Ferguson.                   | Berkeley.     | 51               | 1                        |                                    |                            |          |         |       |                   | 3.10                     | 2.20                       | 0.00                   | 0                          | 2                  |                       |                     |                    | D. B. Gilliland, jr.     |                    |
| Florence.                   | Florence.     | 130              | 20                       | 63.0                               | 0.0                        | 87       | *17     | 41    | 30                | 4.44                     | +1.72                      | 2.10                   | 0                          | 6                  | 19                    | 3                   | 9                  | H. K. Gilbert.           |                    |
| Georgetown.                 | Georgetown.   | 12               | 15                       | 64.8                               | -0.2                       | 82       | 19      | 45    | 29                | 4.34                     | +0.05                      | 1.32                   | 0                          | 5                  | 21                    | 7                   | 1                  | Wm. Alden James.         |                    |
| Greenville.                 | Greenville.   | 989              | 16                       | 58.2                               | 1.2                        | 83       | 10      | 37    | 30                | 6.14                     | +1.71                      | 1.85                   | 0                          | 9                  | 19                    | 2                   | 10                 | Mrs. S. A. Crittenden.   |                    |
| Greenwood.                  | Greenwood.    | 671              | 20                       | 59.4                               | -2.0                       | 83       | 10      | 34    | 30                | 3.45                     | +2.02                      | 1.38                   | 0                          | 7                  | 23                    | 0                   | 8                  | M. M. Calhoun.           |                    |
| Heath Springs.              | Lancaster.    | 568              | 7                        |                                    |                            |          |         |       |                   |                          |                            |                        |                            |                    |                       |                     |                    | J. A. Weaver.            |                    |
| Jacksonboro.                | Colleton.     | 131              | 0                        | 62.4                               |                            | 80       | *7      | 41    | *15               | 2.51                     | 1.62                       | 0.00                   | 0                          | 5                  | 17                    | 7                   | 7                  | W. E. Haskell, jr.       |                    |
| Kingstree (1).              | Williamsburg. | 54               | 20                       | 63.7                               | +0.3                       | 83       | 19      | 41    | 30                | 3.73                     | 1.43                       | 2.20                   | 0                          | 7                  | 21                    | 3                   | 7                  | J. A. Scott.             |                    |
| Kingstree (2).              | Williamsburg. | 50               | 14                       |                                    |                            |          |         |       |                   | 3.27                     | +0.53                      | 2.12                   | 0                          | 4                  | 19                    | 4                   | 8                  | A. O. Matthews.          |                    |
| Liberty.                    | Pickens.      | 900              | 14                       | 59.8                               | 0.2                        | 84       | 10      | 36    | 30                | 6.65                     | +3.84                      | 2.00                   | 0                          | 6                  | 20                    | 6                   | 5                  | Jno. T. Boggs.           |                    |
| Little Mountain.            | Newberry.     | 630              | 15                       | 61.6                               | 2.4                        | 84       | 18      | 43    | 31                | 5.22                     | +2.56                      | 2.36                   | 0                          | 7                  | 21                    | 4                   | 6                  | John M. Sease, M. D.     |                    |
| Newberry.                   | Newberry.     | 502              | 4                        | 60.4                               | -1.8                       | 84       | 18      | 37    | 30                | 4.44                     | +1.52                      | 1.48                   | 0                          | 7                  | 16                    | 7                   | 8                  | W. G. Peterson.          |                    |
| Pelzer.                     | Anderson.     | 873              | 3                        |                                    |                            |          |         |       |                   | 4.48                     | 1.60                       | 0.00                   | 0                          | 9                  | 21                    | 3                   | 7                  | John M. Ward.            |                    |
| Pinopolis.                  | Berkeley.     | 54               | 15                       |                                    |                            |          |         |       |                   |                          |                            |                        |                            |                    |                       |                     |                    | Miss E. P. Ravenel.      |                    |
| St. George.                 | Chester.      | 109              | 20                       | 66.2                               | 2.2                        | 83       | 19      | 45    | 30                | 1.80                     | -0.41                      | 0.90                   | 0                          | 3                  | 27                    | 0                   | 4                  | G. T. Lewis.             |                    |
| St. Matthews.               | Calhoun.      | 269              | 20                       | 61.4                               | 2.7                        | 81       | 10      | 41    | *30               | 2.81                     | -0.47                      | 1.31                   | 0                          | 7                  | 25                    | 0                   | 6                  | J. S. Wannamaker.        |                    |
| Saluda.                     | Saluda.       | 536              | 6                        | 60.6                               |                            | 84       | *19     | 37    | *14               | 4.23                     | 2.34                       | 0.00                   | 0                          | 5                  | 23                    | 2                   | 5                  | Alvin Etheridge.         |                    |
| Santee.                     | Union.        | 512              | 14                       | 59.8                               | 4.3                        | 81       | 10      | 39    | *4                | 6.26                     | +1.22                      | 2.25                   | 0                          | 7                  | 17                    | 8                   | 6                  | E. W. Jeter.             |                    |
| Savannah, Ga.               | Chatham.      | 71               | 31                       | 64.8                               | 1.5                        | 82       | 18      | 44    | 30                | 1.14                     | -2.21                      | 0.82                   | 0                          | 5                  | 10                    | 5                   | 10                 | Weather Bureau.          |                    |
| Smiths Mills.               | Williamsburg. | 62               | 13                       |                                    |                            |          |         |       |                   | 1.66                     | -2.07                      | 0.63                   | 0                          | 6                  | 20                    | 0                   | 11                 | W. G. Walker.            |                    |
| Society Hill.               | Darlington.   | 192              | 17                       | 60.6                               | -1.0                       | 82       | 10      | 38    | 31                | 5.87                     | +2.85                      | 2.16                   | 0                          | 7                  | 21                    | 0                   | 10                 | J. J. Lucas.             |                    |
| Spartanburg.                | Spartanburg.  | 875              | 17                       | 60.1                               | -0.2                       | 88       | 10      | 38    | 31                | 5.48                     | +2.84                      | 1.45                   | 0                          | 9                  | 15                    | 0                   | 16                 | F. P. Robinson.          |                    |
| Stateburg.                  | Sumter.       | 500              | 31                       |                                    |                            |          |         |       |                   |                          |                            |                        |                            |                    |                       |                     |                    | W. W. Anderson, M. D.    |                    |
| Summerville.                | Dorchester.   | 75               | 11                       | 61.0                               | 0.6                        | 87       | 10      | 41    | *15               | 4.00                     | +0.89                      | 2.23                   | 0                          | 8                  | 12                    | 15                  | 4                  | Miss E. H. Gadsden       |                    |
| Trenton.                    | Edgefield.    | 620              | 15                       | 60.5                               | -4.2                       | 82       | 18      | 40    | 4                 | 5.00                     | +2.07                      | 2.31                   | 0                          | 5                  | 19                    | 6                   | 6                  | C. A. Long.              |                    |
| Trident.                    | Berkeley.     | 85               | 22                       | 62.6                               | +0.1                       | 86       | 10      | 38    | 30                | 1.69                     | -1.22                      | 1.20                   | 0                          | 4                  | 12                    | 11                  | 8                  | Etsell Gaillard.         |                    |
| Walterboro.                 | Colleton.     | 69               | 5                        | 65.3                               |                            | 84       | 19      | 41    | *17               | 4.4                      | 0.42                       | 0.00                   | 0                          | 6                  | 19                    | 8                   | 4                  | J. A. Westerberg.        |                    |
| Winnington, N. C.           | New Hanover.  | 52               | 39                       | 61.5                               | +0.2                       | 84       | 19      | 45    | 30                | 5.74                     | +2.00                      | 2.60                   | 0                          | 11                 | 12                    | 9                   | 10                 | Weather Bureau.          |                    |
| Winnsboro.                  | Fairfield.    | 545              | 19                       | 62.4                               | -0.2                       | 83       | 10      | 45    | 30                | 3.78                     | 1.28                       | 1.10                   | 0                          | 6                  | 22                    | 5                   | 4                  | John W. Seigler.         |                    |
| Winthrop College.           | York.         | 690              | 0                        | 61.1                               |                            | 85       | 19      | 39    | 30                | 5.08                     | 2.35                       | 0.00                   | 0                          | 6                  | 22                    | 1                   | 8                  | E. R. Rivers.            |                    |
| Yemassee.                   | Beaufort.     | 23               | 13                       | 62.0                               | -3.1                       | 83       | 18      | 41    | *15               | 4.48                     | +1.82                      | 3.02                   | 0                          | 9                  | 24                    | 2                   | 5                  |                          |                    |
| Means, extremes, and dates. |               |                  |                          | 62.0                               | 1.4                        | 89       | 19      | 35    | 30                | 4.22                     | +1.47                      | 3.32                   | 0                          | 6                  | 19                    | 6                   | 6                  | ne.                      |                    |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. †Maximum thermometer not standard. ‡Minimum thermometer not standard. §Exposed non-registering thermometer not standard. \*On other dates also. a, Indicates 1 day missing; b, 2 days, etc. °The state of sky at 8 a. m. not used in averages.

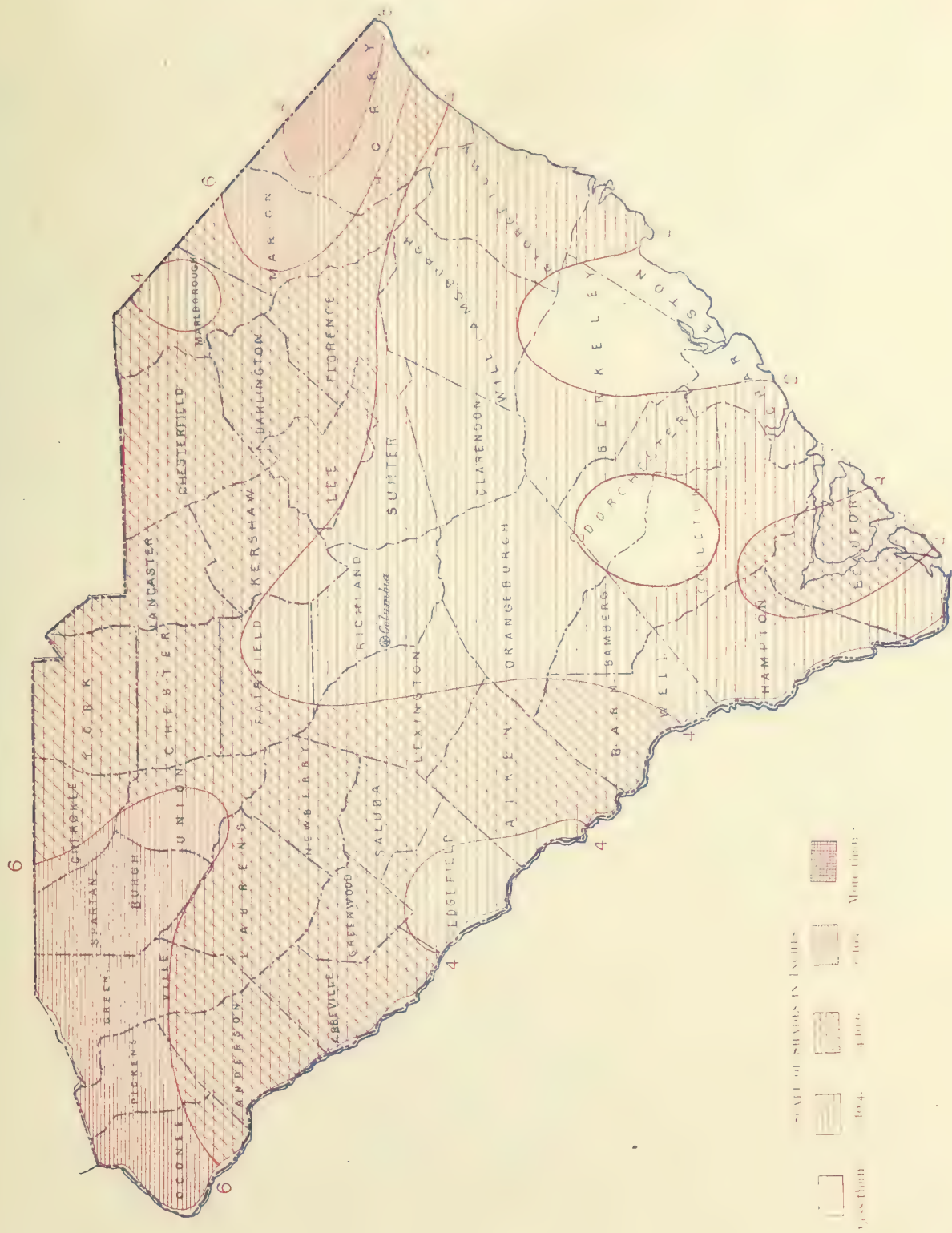


DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING OCTOBER, 1908.

| STATIONS.            | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Monthly mean. |       |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|
|                      | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.          | Max.  |
| Aiken.....           | 81.51 | 74.54 | 69.44 | 80.51 | 75.43 | 76.52 | 78.51 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51         | 75.59 |
| Allendale*.....      | 79.58 | 72.57 | 67.48 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49 | 68.40 | 73.49         | 68.40 |
| Anderson.....        | 81.48 | 74.57 | 69.48 | 80.51 | 75.43 | 76.52 | 78.51 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51         | 75.59 |
| Augusta, Ga.....     | 80.52 | 71.57 | 66.48 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45         | 72.36 |
| Barksdale.....       | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....         | ..... |
| Batesburg*.....      | 76.50 | 69.52 | 70.44 | 72.41 | 78.43 | 74.48 | 76.48 | 74.48 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51 | 75.59 | 76.51         | 75.59 |
| Beaufort.....        | 78.54 | 71.57 | 66.48 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45         | 72.36 |
| Bennettsville.....   | 73.54 | 71.45 | 75.45 | 80.49 | 74.51 | 80.49 | 74.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45 | 76.51 | 75.45         | 76.51 |
| Blackville*.....     | 80.54 | 73.54 | 68.45 | 79.55 | 74.46 | 80.54 | 73.54 | 68.45 | 79.55 | 74.46 | 80.54 | 73.54 | 68.45 | 79.55 | 74.46 | 80.54 | 73.54 | 68.45 | 79.55 | 74.46 | 80.54 | 73.54 | 68.45 | 79.55 | 74.46 | 80.54 | 73.54 | 68.45 | 79.55 | 74.46 | 80.54 | 73.54         | 68.45 |
| Bowman.....          | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....         | ..... |
| Camden (1).....      | 79.53 | 70.52 | 67.44 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42 | 70.50 | 74.42         | 70.50 |
| Charlotte.....       | 74.48 | 74.50 | 68.52 | 73.54 | 75.58 | 74.48 | 74.50 | 68.52 | 73.54 | 75.58 | 74.48 | 74.50 | 68.52 | 73.54 | 75.58 | 74.48 | 74.50 | 68.52 | 73.54 | 75.58 | 74.48 | 74.50 | 68.52 | 73.54 | 75.58 | 74.48 | 74.50 | 68.52 | 73.54 | 75.58 | 74.48 | 74.50         | 68.52 |
| Charlotte, N. C..... | 78.54 | 71.57 | 66.48 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45 | 72.36 | 77.45         | 72.36 |
| Cheraw (1)*.....     | 78.51 | 68.52 | 65.43 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45 | 71.48 | 73.45         | 71.48 |
| Cheraw (2)*.....     | 78.47 | 78.47 | 75.39 | 79.46 | 74.48 | 79.46 | 74.48 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39 | 76.51 | 75.39         | 76.51 |
| Clarks Hill.....     | 74.48 | 67.45 | 67.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39         | 74.43 |
| Clemson College..... | 74.48 | 67.45 | 67.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39         | 74.43 |
| Columbia.....        | 74.48 | 67.45 | 67.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39         | 74.43 |
| Columbia (1)*.....   | 74.48 | 67.45 | 67.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39         | 74.43 |
| Conway*.....         | 74.48 | 67.45 | 67.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39         | 74.43 |
| Dorchester.....      | 74.48 | 67.45 | 67.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39 | 74.43 | 71.39         | 74.43 |
| Dillon.....          | 77.51 | 73.53 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45         | 75.43 |
| Florence.....        | 77.51 | 73.53 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45 | 75.43 | 75.45 | 79.45         | 75.43 |
| Georgetown.....      | 77.49 | 67.48 | 65.43 | 74.44 | 71.46 | 74.44 | 71.46 | 71.46 | 72.52 | 74.44 | 71.46 | 72.52 | 74.44 | 71.46 | 72.52 | 74.44 | 71.46 | 72.52 | 74.44 | 71.46 | 72.52 | 74.44 | 71.46 | 72.52 | 74.44 | 71.46 | 72.52 | 74.44 | 71.46 | 72.52 | 74.44 | 71.46         | 72.52 |
| Greenville*.....     | 79.47 | 70.54 | 69.43 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44 | 77.46 | 73.44         | 77.46 |
| Greenwood*.....      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....         | ..... |
| Heath Springs.....   | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....         | ..... |
| Jacksonboro.....     | 74.57 | 72.54 | 66.41 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50         | 77.48 |
| Kingsree (1)*.....   | 74.57 | 72.54 | 66.41 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50 | 77.48 | 73.50         | 77.48 |
| Liberty.....         | 80.47 | 70.45 | 67.46 | 74.39 | 78.40 | 73.54 | 77.52 | 73.52 | 74.53 | 77.52 | 73.52 | 74.53 | 77.52 | 73.52 | 74.53 | 77.52 | 73.52 | 74.53 | 77.52 | 73.52 | 74.53 | 77.52 | 73.52 | 74.53 | 77.52 | 73.52 | 74.53 | 77.52 | 73.52 | 74.53 | 77.52 | 73.52         | 74.53 |
| Little Mountain..... | 76.51 | 63.52 | 70.50 | 72.39 | 77.45 | 74.39 | 78.45 | 74.35 | 77.52 | 74.35 | 77.52 | 74.35 | 77.52 | 74.35 | 77.52 | 74.35 | 77.52 | 74.35 | 77.52 | 74.35 | 77.52 | 74.35 |       |       |       |       |       |       |       |       |       |               |       |



# TOTAL PRECIPITATION FOR OCTOBER, 1908



SCALE OF SHADINGS IN INCHES

|             |        |        |        |        |        |             |
|-------------|--------|--------|--------|--------|--------|-------------|
| Less than 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 6 | 6 to 8 | More than 8 |
|-------------|--------|--------|--------|--------|--------|-------------|

## DAILY PRECIPITATION FOR SOUTH CAROLINA, OCTOBER, 1908.

| STATIONS.         | DAY OF MONTH. |     |   |   |   |   |   |      |      |     |     |    |    |    |    |     |     |    |    |    |    |      |      |     |     |     |      |      |      |     |    | Total. |
|-------------------|---------------|-----|---|---|---|---|---|------|------|-----|-----|----|----|----|----|-----|-----|----|----|----|----|------|------|-----|-----|-----|------|------|------|-----|----|--------|
|                   | 1             | 2   | 3 | 4 | 5 | 6 | 7 | 8    | 9    | 10  | 11  | 12 | 13 | 14 | 15 | 16  | 17  | 18 | 19 | 20 | 21 | 22   | 23   | 24  | 25  | 26  | 27   | 28   | 29   | 30  | 31 |        |
| Aiken             |               |     |   |   |   |   |   |      | 2.01 |     |     |    |    |    |    |     |     |    |    |    |    | .42  |      |     | .07 |     | 1.32 |      |      |     |    | 4.72   |
| Allendale*        |               |     |   |   |   |   |   |      | .80  |     |     |    |    |    |    |     |     |    |    |    |    | .10  |      |     |     |     | 1.20 |      |      |     |    | 2.10   |
| Anderson          |               |     |   |   |   |   |   |      | .53  |     |     |    |    |    |    |     |     |    |    |    |    | .31  | 1.23 |     |     | .99 | 1.34 | 1.17 |      |     |    | 5.57   |
| Augusta, Ga.      |               |     |   |   |   |   |   | .10  | .73  |     |     |    |    |    |    |     |     |    |    |    |    | .08  | .10  |     |     | .05 | .50  | 1.27 | .17  |     |    | 3.06   |
| Barksdale         |               |     |   |   |   |   |   |      |      |     |     |    |    |    |    |     |     |    |    |    |    |      |      |     |     |     |      |      |      |     |    |        |
| Batesburg*        |               |     |   |   |   |   |   |      | 2.31 |     |     |    |    |    |    |     |     |    |    |    |    | T.   | .59  | .06 |     |     | 1.12 | 1.19 |      |     |    | 5.27   |
| Beaufort          | 2.70          |     |   |   |   |   |   | T.   | 1.13 |     |     |    |    |    |    |     |     |    |    |    |    | .04  |      |     |     | .01 | .06  | .68  | .00  |     |    | 4.77   |
| Bennettsville     |               |     |   |   |   |   |   |      | .32  | T.  |     |    |    |    |    |     |     |    |    |    |    | .98  | .12  |     |     |     | 1.00 | .43  |      |     |    | 2.81   |
| Blackville*       |               |     |   |   |   |   |   | 1.85 | .13  |     |     |    |    |    |    |     |     |    |    |    |    | .10  |      |     |     |     | .47  | 1.67 | .05  |     |    | 4.27   |
| Blairs*           |               |     |   |   |   |   |   | 1.64 |      |     |     |    |    |    |    |     |     |    |    |    |    |      | .04  |     |     |     | 1.50 | 1.36 |      |     |    | 5.44   |
| Bowman            |               |     |   |   |   |   |   | .88  | .58  |     |     |    |    |    |    |     |     |    |    |    |    | .22  |      |     |     |     | .96  | .10  |      |     |    | 2.71   |
| Calhoun Falls*    |               |     |   |   |   |   |   |      |      |     |     |    |    |    |    | .33 | .18 |    |    |    |    | .22  | .18  |     |     | .28 | 1.65 | 1.75 | .21  |     |    | 4.83   |
| Camden (1)        |               |     |   |   |   |   |   | .06  | .76  |     |     |    |    |    |    |     |     |    |    |    |    | .13  | 1.16 |     |     | .01 | .85  | .56  |      |     |    | 4.43   |
| Camden (2)*       |               |     |   |   |   |   |   | .70  | .74  |     |     |    |    |    |    |     |     |    |    |    |    |      | .94  | .14 |     |     | .36  | 1.06 | .06  |     |    | 4.00   |
| Catawba*          |               |     |   |   |   |   |   | 1.10 | .60  |     |     |    |    |    |    |     |     |    |    |    |    | .28  | .84  | .08 |     |     | .86  | 1.60 |      |     |    | 5.36   |
| Chappells*        |               |     |   |   |   |   |   |      | .90  |     |     |    |    |    |    |     |     |    |    |    |    |      | .88  |     |     |     | 1.28 | 1.10 | .10  |     |    | 4.26   |
| Charleston        |               |     |   |   |   |   |   | T.   | .47  |     |     |    |    |    |    |     |     |    |    |    |    | .01  | T.   |     |     |     | .28  | .72  |      |     |    | 1.55   |
| Charlotte, N. C.  |               |     |   |   |   |   |   | T.   | 2.35 | .21 |     |    |    |    |    |     |     |    |    |    |    | .49  | 1.53 | .03 |     | T.  | .05  | 1.20 | .64  |     |    | 6.58   |
| Cheraw (1)*       |               |     |   |   |   |   |   | .31  | .37  |     |     |    |    |    |    |     |     |    |    |    |    | .12  | 1.55 | .64 |     |     | .40  | 1.53 | .03  |     |    | 4.96   |
| Cheraw (2)*       |               |     |   |   |   |   |   | .32  | .14  |     |     |    |    |    |    |     |     |    |    |    |    | .14  | 1.54 | .66 |     |     | .42  | 1.57 | .02  |     |    | 5.01   |
| Clarks Hill       |               |     |   |   |   |   |   | T.   | T.   |     |     |    |    |    |    |     |     |    |    |    |    |      | .21  |     |     |     | 1.95 | .12  |      |     |    | 2.28   |
| Clemson College   |               |     |   |   |   |   |   | .61  |      |     |     |    |    |    |    |     |     |    |    |    |    | .12  | 1.71 |     |     |     | 1.55 | 1.54 |      |     |    | 5.61   |
| Columbia          |               |     |   |   |   |   |   | .90  | .72  |     |     |    |    |    |    |     |     |    |    |    |    | .26  | .25  |     |     | .01 | .25  | 1.25 | .09  |     |    | 2.92   |
| Conway*           | 1.64          | .05 |   |   |   |   |   | .49  | .50  |     |     |    |    |    |    |     |     |    |    |    |    | .28  | .86  | .40 |     |     | .46  | 2.06 |      |     |    | 9.42   |
| Darlington        |               |     |   |   |   |   |   | .30  | .18  |     |     |    |    |    |    |     |     |    |    |    |    | T.   | 1.40 | .10 |     |     |      | .87  | 1.16 | T.  |    | 4.70   |
| Dillon            |               |     |   |   |   |   |   | .15  | .22  |     |     |    |    |    |    |     |     |    |    |    |    | .52  | 2.73 | .10 |     |     | 1.27 | 1.40 |      |     |    | 6.29   |
| Effingham*        |               |     |   |   |   |   |   | .59  | .10  |     |     |    |    |    |    |     |     |    |    |    |    | .90  | .20  |     |     |     | .25  | 1.00 |      |     |    | 2.95   |
| Ferguson*         | .00           |     |   |   |   |   |   |      |      |     |     |    |    |    |    |     |     |    |    |    |    | T.   |      |     |     |     | T.   | 2.20 |      |     |    | 3.10   |
| Florence*         |               |     |   |   |   |   |   | .30  | .28  |     |     |    |    |    |    |     |     |    |    |    |    | T.   | 1.80 | .10 |     |     | .92  | .84  |      |     |    | 4.44   |
| Georgetown        |               |     |   |   |   |   |   | .80  | .39  | T.  |     |    |    |    |    |     |     |    |    |    |    | .92  |      |     |     |     | .20  | 1.32 |      |     |    | 3.54   |
| Greenville*       |               |     |   |   |   |   |   | .79  | .46  |     |     |    |    |    |    |     |     |    |    |    |    | .07  | 1.85 | .26 |     | .25 | .65  | 1.85 | .05  |     |    | 6.14   |
| Greenwood*        |               |     |   |   |   |   |   | .58  | .12  |     |     |    |    |    |    |     |     |    |    |    |    | 1.02 | .09  |     |     | .24 | 1.11 | 1.38 |      |     |    | 4.54   |
| Heath Springs     |               |     |   |   |   |   |   |      |      |     |     |    |    |    |    |     |     |    |    |    |    |      |      |     |     |     |      |      |      |     |    |        |
| Jacksonboro       | .66           |     |   |   |   |   |   | .10  | .03  |     |     |    |    |    |    |     |     |    |    |    |    | T.   | .10  |     |     |     | 1.62 |      |      |     |    | 2.51   |
| Kingtree (1)*     | .11           | T.  |   |   |   |   |   | .46  | .06  |     |     |    |    |    |    |     |     |    |    |    |    | .77  |      |     |     |     | .10  | 2.20 | .03  |     |    | 3.73   |
| Kingtree (2)*     |               |     |   |   |   |   |   | .45  | .05  |     |     |    |    |    |    |     |     |    |    |    |    | .65  | T.   |     |     |     | .21  | .12  |      |     |    | 3.27   |
| Liberty           |               |     |   |   |   |   |   | 1.00 |      |     |     |    |    |    |    |     |     |    |    |    |    | .40  | 2.00 |     | .15 |     | 1.60 | 1.50 |      |     |    | 6.65   |
| Little Mountain   |               |     |   |   |   |   |   | .30  | 1.30 |     |     |    |    |    |    |     |     |    |    |    |    | .05  | .80  |     |     | .05 | 2.36 | .36  |      |     |    | 5.22   |
| Newberry          |               |     |   |   |   |   |   | .56  | .37  |     |     |    |    |    |    |     |     |    |    |    |    | T.   | .64  | .01 |     | .05 | 1.25 | 1.48 | T.   |     |    | 4.44   |
| Pelzer*           |               |     |   |   |   |   |   | .02  | .02  |     |     |    |    |    |    |     |     |    |    |    |    | .02  | 1.26 | .20 |     | .74 | .54  | 1.60 | .08  |     |    | 4.48   |
| Pinopolis         |               |     |   |   |   |   |   | .70  | .20  |     |     |    |    |    |    |     |     |    |    |    |    |      |      |     |     |     | .90  |      |      |     |    | 1.80   |
| St. George*       |               |     |   |   |   |   |   | .51  | .25  |     |     |    |    |    |    |     |     |    |    |    |    | .05  | .20  |     |     |     | .44  | 1.31 | .05  |     |    | 2.81   |
| St. Matthews*     |               |     |   |   |   |   |   | 1.10 |      |     |     |    |    |    |    |     |     |    |    |    |    | .10  | .32  |     |     |     | 2.34 | .37  |      |     |    | 4.23   |
| Saluda            |               |     |   |   |   |   |   | 2.23 | .02  |     |     |    |    |    |    |     |     |    |    |    |    | .20  | .97  |     |     | .02 | 2.00 | .82  |      |     |    | 6.26   |
| Santee            |               |     |   |   |   |   |   | .41  |      |     |     |    |    |    |    |     |     |    |    |    |    | T.   | T.   |     |     |     | .10  | .20  | T.   |     |    | 1.34   |
| Savannah, Ga.     | .10           |     |   |   |   |   |   | .53  | .41  |     |     |    |    |    |    |     |     |    |    |    |    | T.   | .63  |     |     |     | .18  | .14  |      |     |    | 1.60   |
| Smiths Mills*     | .41           |     |   |   |   |   |   | .11  | .19  |     |     |    |    |    |    |     |     |    |    |    |    | 2.16 | .39  |     |     |     | .68  | 1.37 | .02  |     |    | 5.87   |
| Society Hill      |               |     |   |   |   |   |   | .36  | .89  |     |     |    |    |    |    |     |     |    |    |    |    | .10  | 1.30 | .30 |     | .31 | .65  | 1.35 | .02  |     |    | 5.48   |
| Spartanburg*      |               |     |   |   |   |   |   | 1.15 | .30  |     |     |    |    |    |    |     |     |    |    |    |    |      |      |     |     |     |      |      |      |     |    |        |
| Stateburg         |               |     |   |   |   |   |   |      |      |     |     |    |    |    |    |     |     |    |    |    |    |      |      |     |     |     |      |      |      |     |    |        |
| Summerville       | .30           |     |   |   |   |   |   | T.   | .13  | .02 |     |    |    |    |    |     |     |    |    |    |    | .01  | .04  |     |     |     | .01  | 2.33 | .11  |     |    | 2.95   |
| Trenton           |               |     |   |   |   |   |   | 2.33 |      |     |     |    |    |    |    |     |     |    |    |    |    | .10  | .19  |     |     |     | 2.12 | .26  |      |     |    | 5.00   |
| Trial             |               |     |   |   |   |   |   | .35  |      |     |     |    |    |    |    |     |     |    |    |    |    | .09  |      |     |     |     | 1.20 | .05  |      |     |    | 1.60   |
| Walterboro        | .03           |     |   |   |   |   |   | T.   | .33  | .35 |     |    |    |    |    |     |     |    |    |    |    |      | .06  |     |     |     | .42  | .16  |      |     |    | 1.41   |
| Wilmington, N. C. | T.            |     |   |   |   |   |   | .04  | .07  | .42 | .47 |    |    |    |    |     |     |    |    |    |    | T.   | 2.00 | .67 |     | .09 | 1.72 | .11  |      |     |    | 5.74   |
| Winnboro          |               |     |   |   |   |   |   | .48  |      |     |     |    |    |    |    |     |     |    |    |    |    | .25  | .50  |     |     |     | .55  | .90  | .10  |     |    | 3.78   |
| Winthrop College  |               |     |   |   |   |   |   | T.   | 2.35 | .10 |     |    |    |    |    |     |     |    |    |    |    | .29  | 1.06 | T.  |     | T.  | 1.45 | .64  |      |     |    | 5.98   |
| Yemassee*         | .40           | .02 |   |   |   |   |   |      | 3.02 | .17 |     |    |    |    |    |     |     |    |    |    |    |      | .09  | .03 |     |     |      | .21  | .40  | .14 |    | 4.48   |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR NOVEMBER, 1908

## SOUTH CAROLINA SECTION

OF THE

# CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU

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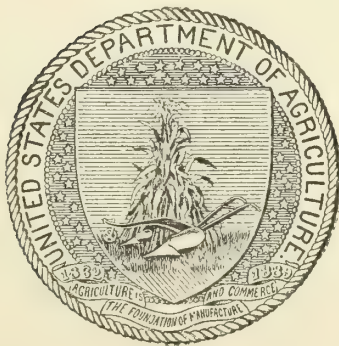
WILLIS L. MOORE

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BY

J. W. BAUER

SECTION DIRECTOR



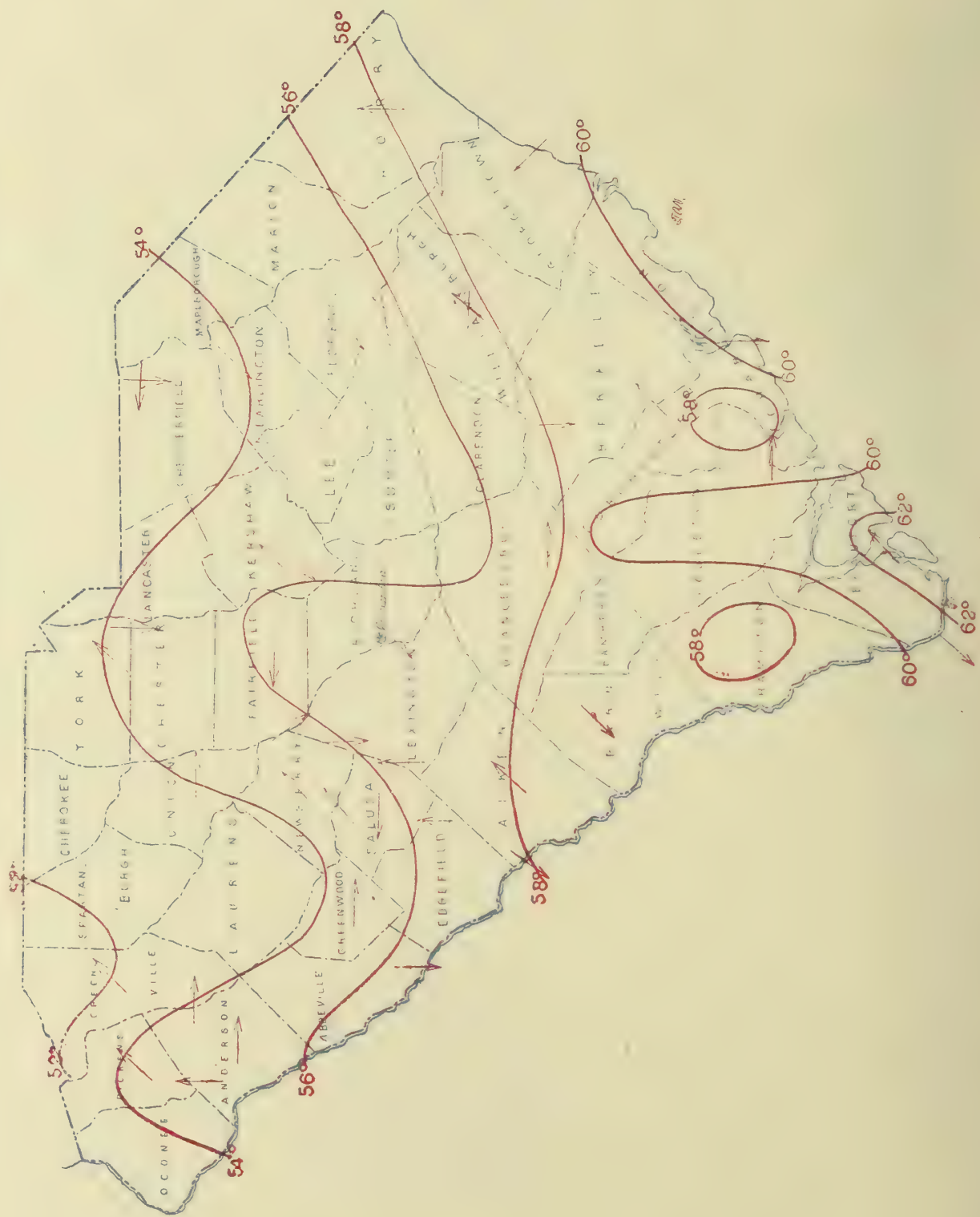
PITTSBURG, PA.

WEATHER BUREAU OFFICE

DECEMBER 26, 1908

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR NOVEMBER, 1908

Arrows by wind the wind





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

Vol. XI. COLUMBIA, S. C., NOVEMBER, 1908. No. 10.

## GENERAL SUMMARY.

With one exception, the mean temperature was above the normal at every station, the departures ranging from less than one degree to over six degrees. This month was the third warmest November of record, the mean temperature having been higher in 1896 and in 1902, while 1899 and 1900 were nearly as warm. The coolest November occurred in 1901, when the mean temperature was  $48.2^{\circ}$ , or  $8.4^{\circ}$  below this year's mean, and  $11.0^{\circ}$  below the highest November mean in 1902. The precipitation was well distributed, but was below the normal at all but two stations, the deficiencies ranging from less than a quarter of an inch to nearly two and a half inches. The average rainfall was less in 1901, 1903, 1905 and 1906, the last year having been the driest of record. The heaviest rainfall occurred in 1898, tho 1896 and 1907 also had wet Novembers. No snow was recorded during this month.

The mean temperature was slightly above  $62^{\circ}$  in the extreme southern portion, and slightly below  $52^{\circ}$  in the extreme north-western portion. The western division was relatively warmer than the eastern. The first week was cool, with light to killing frosts on the 6th over the whole State, being the coldest day at many stations. This was followed by a decided warm wave, with high day temperatures from the 8th to the 11th, and the maximum temperatures for the month were recorded in the western and central divisions and at some stations in the eastern between those dates. This was, in turn, followed by a cool wave with killing frosts and thin ice, except on the immediate coast, on the 15th and 16th, these being the coldest days at most stations. The temperature ranged above the normal from the 17th to the end of the month, the greatest departures from the normal having occurred generally on the last three days.

The precipitation was heaviest along the coast and in the extreme northwestern portion where, over comparatively small areas, the monthly amounts were over two inches; there were also small areas in Barnwell, Saluda, Greenwood, Fairfield and York counties where slightly more than two inches were received; over the remainder of the State the monthly amounts ranged from about half an inch to nearly two inches. The precipitation was general on the 4th and 14th; light local rains occurred during the last decade in the eastern, southern and western divisions.

An unusual amount of dense fog was recorded from the 24th to the 30th, the fog areas on several days covering practically the whole State. There was slightly more than the usual amount of bright sunshine.

## TEMPERATURE.

The mean temperature was  $56.6^{\circ}$ , which is  $2.7^{\circ}$  above the normal. The highest local monthly mean was  $62.3^{\circ}$ , at Beaufort; the lowest was  $52.0$ , at Greenville. The monthly temperature extremes were  $88^{\circ}$  at Florence on the 10th, and  $24^{\circ}$  at Spartanburg on the 16th, making the State range  $64^{\circ}$ . The greatest

local monthly range was  $63^{\circ}$ , at Spartanburg; the least was  $39^{\circ}$ , at Beaufort. The mean of the daily maximum temperatures was  $68.0$ , and of the daily minimum temperatures was  $45.2$ , making the average daily range  $22.8$ .

## PRECIPITATION.

The average precipitation was 1.60 inches, which is 1.36 inches below the normal. The greatest local monthly amount was 3.09 inches, at Greenville; the least was 0.54 of an inch, at Bowman. The greatest 24-hour rainfall was 2.56 inches, at Charleston on the 14th. The average number of days with 0.01 of an inch or more of rain was three, ranging from one day at Aiken, Ferguson, Kingstree, St. George and Winnsboro to eight days at Greenville.

EXCESSIVE PRECIPITATION.—At Charleston on the 14th, 2.56 inches in 24 hours.

## WIND.

The prevailing wind was southwest at 14 stations, northeast at 8 stations, west, at 6 stations, north at 5 stations, east and south at 4 station each, northwest at 2 stations and southeast at 1 station.

## CLOUDINESS.

The average number of clear days was 16, of partly cloudy days 10 and of cloudy days 4.

## MISCELLANEOUS PHENOMENA.

HAIL.—At Spartanburg on the 14th.

LUNAR CORONAS.—At Blackville on the 29th.

LUNAR HALOS.—At Beaufort on the 1st; at Blackville on the 2d.

HIGH WINDS.—At Bowman and Charleston on the 5th; at Columbia on the 30th.

THUNDERSTORMS.—At Camden on the 4th; at Charleston on the 14th, 21st, 22d; at Jacksonboro and Liberty on the 11th; at Saluda on the 3d.

ICE.—The first thin ice of the season was reported at Camden on the 5th; at Clarks Hill, Columbia, Greenville, Liberty and Santuc on the 15th; at Newberry on the 6th; at Trial on the 13th.

FROSTS.—First light of the season at Charleston on the 6th: first killing of the season at Aiken, Allendale, Blairs, Bowman, Calhoun Falls, Chappells, Cheraw, Clarks Hill, Clemson College, Columbia, Effingham, Ferguson, Florence, Jacksonboro, Liberty, Newberry, St. George, St. Matthews, Santuc, Spartanburg, Summerville, Trial, Walterboro, Yemassee on the 6th; at Beaufort, Catawba and Winthrop College on the 5th; at Anderson, Batesburg, Blackville, Camden, Dillon, Georgetown, Greenville, Little Mountain, Pelzer, Saluda, Smiths Mills, Society Hill and Trenton on the 15th; at Conway, Greenwood, Kingstree and Winnsboro on the 16th.

DENSE FOGS.—At Beaufort, Bowman, Trenton on the 24th, 25th, 26th, 27th, 28th, 29th; at Blackville on the 3d, 10th, 23d, 24th, 25th, 26th, 28th, 30th; at Camden on the 24th, 26th, 27th, 30th; at Charleston, Jacksonboro, Yemassee on the 24th, 25th, 26th, 27th, 28th, 29th; at Cheraw, Society Hill, Winthrop College on the 24th, 25th, 26th, 27th, 30th; at Clarks Hill on the 26th, 27th, 28th, 29th; at Columbia on the 4th, 14th, 15th, 24th, 26th, 27th, 28th, 29th, 30th; at Conway, Smiths Mills on the 26th, 27th; at Effingham on the 29th; at Georgetown on the 24th, 25th, 26th; at Liberty on the 26th, 30th; at Little Mountain on the 26th, 27th, 29th, 30th; at Newberry on the 27th, 29th; at Saluda on the 24th, 25th, 26th, 29th; at Santuc on the 25th, 26th, 27th, 30th; at Spartanburg on the 26th, 30th; at Summerville on the 25th, 26th, 27th, 28th, 29th, 30th; at Trial on the 24th, 25th, 26th, 27th, 29th; at Walterboro on the 25th, 26th, 27th, 28th; at Rimini on the 24th, 25th, 26th, 27th, 29th.



## PRESSURE AND WIND TABLE FOR NOVEMBER, 1908.

| Stations.             | Barometric pressure. |          |       |         |       | Wind.           |                 |                   |            |       |
|-----------------------|----------------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.                | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |                      |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.          | 30.15                | 30.40    | 2     | 29.82   | 7     | 3603            | 5.0             | 20                | SW.        | 30    |
| Charleston            | 30.15                | 30.39    | 27    | 29.70   | 4     | 6449            | 9.0             | 33                | N.         | 5     |
| Charlotte, N. C.      | 30.15                | 30.44    | 1     | 29.73   | 4     | 4837            | 6.7             | 21                | SW.        | 30    |
| Columbia              | 30.15                | 30.43    | 2     | 29.70   | 4     | 4624            | 6.4             | 26                | SW.        | 30    |
| Savannah, Ga.         | 30.16                | 30.40    | 27    | 29.76   | 4     | 4546            | 6.3             | 20                | W.         | 18    |
| Wilmington, N. C.     | 30.15                | 30.45    | 2     | 29.67   | 4     | 5057            | 7.0             | 32                | S.         | 14    |
| Averages or extremes. | 30.15                | 30.45    | 2     | 29.67   | 4     | 4853            | 6.7             | 33                | N.         | 5     |

## RIVER GAGE READINGS, NOVEMBER, 1908.

| Stations.        | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|--------------|-------|----------|-------|---------|-------|
| Blairs           | 14           | 1.3   | 5.0      | 15    | 0.2     | *23   |
| Calhoun Falls.   | 15           | 3.5   | 4.6      | 15    | 2.7     | *28   |
| Camden           | 24           | 10.8  | 22.9     | 16    | 6.8     | 29    |
| Catawba          | 11           | 3.5   | 6.0      | 16    | 2.2     | 28    |
| Chappells        | 14           | 4.0   | 8.0      | 1     | 2.0     | 24    |
| Cheraw           | 27           | 7.0   | 25.4     | 16    | 3.3     | 30    |
| Columbia         | 15           | 2.6   | 5.0      | 16    | 1.6     | *22   |
| Effingham        | 12           | 4.9   | 7.1      | 3     | 3.3     | 21    |
| Ferguson         | 12           | 12.4  | 13.6     | *4    | 9.7     | 30    |
| Kingstree        | 12           | 2.0   | 2.3      | *10   | 1.5     | 1     |
| Mt. Holly, N. C. | 15           | 2.0   | 2.8      | 1     | 1.8     | *8    |
| Pelzer           | 7            | 3.0   | 4.0      | 1     | 2.6     | *23   |
| Rimini           | 12           | 11.6  | 14.8     | 3     | 8.2     | 30    |
| Smiths Mills     | 16           | 11.6  | 14.3     | 7     | 9.0     | 19    |

\* On other dates also.

## REMARKS BY OBSERVERS.

BATESBURG: The month was unusually warm and pleasant. Frequent dense fogs occurred from the 24th to the 30th.—E. J. HITE.

BEAUFORT: This month had a larger number of clear days than any November in the last 20 years, the next largest number having occurred in November, 1901, with 22 clear days. It was the third warmest November, 1896 and 1902 having had slightly higher mean temperatures. The last decade was pleasant, tho the mornings were foggy.—Miss E. G. RICE.

BOWMAN: The month was noteworthy in having received less rainfall than any November of record. Pleasant weather prevailed during the entire month. The first ice and killing frost occurred on the 6th.—B. O. EVANS.

LIBERTY: A cool spell on the 5th-6th was followed by warm and generally pleasant weather during the remainder of the month, favorable for outdoor work.—Jno. T. Boggs.

SANTUC: The month was generally dry, with more than the usual amount of cloudiness, and considerable haze; there were heavy fogs during the last week. The first killing frost occurred on the 6th, but the most damaging frosts and thin ice occurred on the 15th and 16th.—E. W. JETER.

SOCIETY HILL: This was the warmest November since 1902.—Maj. J. J. LUCAS.

SUMMERVILLE: The relative humidity for the month was 80 per cent.—Miss E. H. GADSDEN.

TRENTON: The total precipitation from January 1st to November 30th is 7.37 inches less than the normal for the first 11 months.—C. A. LONG.

## CLIMATOLOGY OF ST. MATTHEWS, S. C.

## Temperature.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l. |
|-------|------|------|------|------|------|-------|-------|------|-------|------|------|------|--------|
| 1887. |      |      |      |      |      | 74    |       |      |       |      |      |      |        |
| 1888. |      |      |      |      |      |       |       | 83   | 74    | 63   |      |      |        |
| 1889. |      |      |      |      | 72   | 75    | 80    | 76   | 73    | 63   | 50   |      |        |
| 1890. |      |      |      |      | 73   | 81    | 79    |      | 74    | 66   |      |      |        |
| 1891. |      |      |      |      |      |       |       | 79   | 74    | 62   | 55   |      |        |
| 1892. |      |      |      | 65   | 72   | 78    | 79    | 80   | 72    | 65   | 55   |      |        |
| 1893. |      |      |      | 69   | 73   | 78    | 83    | 80   | 77    | 66   | 56   |      |        |
| 1894. |      |      |      |      | 73   | 85    | 77    | 80   | 76    | 66   | 53   |      |        |
| 1895. |      |      | 57   | 61   | 61   | 70    | 81    | 80   | 78    | 62   | 54   | 47   |        |
| 1896. | 43   | 48   | 52   | 68   | 77   | 78    | 81    | 81   | 76    | 64   | 60   | 44   | 64.4   |
| 1897. | 43   | 51   | 57   | 63   | 70   | 77    | 81    | 79   | 74    | 66   | 57   | 49   | 64.1   |
| 1898. | 51   | 45   | 54   | 59   | 75   | 80    | 80    | 80   | 70    | 64   | 52   | 48   | 64.1   |
| 1899. | 45   | 43   | 55   | 61   | 75   | 80    | 80    | 82   | 74    | 64   | 50   | 46   | 64.1   |
| 1900. | 45   | 43   | 51   | 64   | 72   | 77    | 82    | 84   | 79    | 69   | 58   | 48   | 64.1   |
| 1901. | 47   | 45   | 54   | 58   | 73   | 77    | 82    | 80   | 74    | 63   | 49   | 44   | 62.1   |
| 1902. | 43   | 42   | 55   | 62   | 74   | 78    | 82    | 79   | 72    | 66   | 59   | 48   | 62.1   |
| 1903. | 45   | 40   | 62   | 60   | 71   | 74    | 80    | 81   | 73    | 62   | 52   | 42   | 62.1   |
| 1904. | 41   | 45   | 56   | 59   | 70   | 77    | 80    | 77   | 74    | 62   | 52   | 45   | 61.7   |
| 1905. | 41   | 38   | 48   | 62   | 73   | 78    | 80    | 77   | 76    | 64   | 54   | 45   | 62.2   |
| 1906. | 48   | 46   | 62   | 65   | 70   | 77    | 77    | 79   | 77    | 61   | 54   | 46   | 62.2   |
| 1907. | 53   | 46   | 62   | 60   | 70   | 75    | 80    | 78   | 75    | 60   | 52   | 46   | 62.6   |
| M's   | 45.5 | 45.5 | 56.2 | 62.3 | 71.8 | 78.0  | 80.3  | 79.8 | 74.8  | 63.9 | 54.7 | 46.1 | 63.2   |

## Precipitation.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l. |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|--------|
| 1888. |      |      |      |      |      |       |       | 5.48  | 5.84  | 4.00 |      |      |        |
| 1889. |      |      |      |      | 3.94 | 6.07  | 9.38  | 3.37  | 2.59  | 0.44 | 2.99 |      |        |
| 1890. |      |      |      |      | 8.66 | 3.78  | 4.42  |       | 7.21  | 1.39 |      |      |        |
| 1891. |      |      |      |      |      |       |       | 7.61  | 1.77  | 1.43 | 1.84 |      |        |
| 1892. |      |      |      | 1.30 | 2.45 | 1.79  | 5.18  | 5.36  | 4.51  | 0.81 | 0.60 |      |        |
| 1893. |      |      |      |      | 3.25 | 8.35  | 3.33  |       | 1.71  | 1.50 | 1.81 |      |        |
| 1894. |      |      |      |      | 1.61 | 3.60  | 10.20 | 10.27 | 6.80  | 3.15 | 2.28 |      |        |
| 1895. |      |      | 6.24 | 6.88 | 3.43 | 4.86  | 6.24  | 11.58 | 1.41  | 1.28 | 1.96 | 1.83 |        |
| 1896. | 2.85 | 6.74 | 1.40 | 1.10 | 2.30 | 3.49  | 11.01 | 3.86  | 2.10  | 1.34 | 1.12 | 3.38 | 42.75  |
| 1897. | 1.79 | 6.62 | 3.44 | 1.81 | 2.30 | 5.16  | 6.15  | 6.85  | 5.52  | 1.90 | 0.99 | 1.82 | 44.48  |
| 1898. | 1.05 | 0.88 | 2.69 | 5.57 | 1.63 | 4.38  | 7.46  | 7.66  | 3.20  | 2.11 | 5.17 | 2.02 | 43.82  |
| 1899. | 4.28 | 7.10 | 2.23 | 3.04 | 1.49 | 6.59  | 3.30  | 6.89  | 1.88  | 7.67 | 2.90 | 2.16 | 49.46  |
| 1900. | 1.97 | 4.36 | 3.47 | 4.62 | 2.75 | 7.12  | 11.27 | 1.32  | 1.70  | 2.96 | 2.47 | 6.37 | 50.46  |
| 1901. | 4.42 | 2.88 | 2.88 | 4.57 | 5.77 | 4.41  | 3.05  | 1.60  | 4.07  | 0.66 | 0.70 | 3.93 | 42.44  |
| 1902. | 1.67 | 7.35 | 4.51 | 3.14 | 3.18 | 3.76  | 2.90  | 6.54  | 2.55  | 5.07 | 3.52 | 4.35 | 42.60  |
| 1903. | 4.61 | 4.79 | 1.67 | 6.02 | 1.79 | 18.25 | 8.07  | 8.63  | 3.00  | 2.95 | 1.39 | 2.71 | 67.88  |
| 1904. | 3.47 | 4.81 | 4.32 | 1.14 | 1.46 | 3.96  | 4.20  | 7.67  | 2.55  | 0.25 | 3.01 | 2.06 | 38.90  |
| 1905. | 1.92 | 7.45 | 1.85 | 3.41 | 8.82 | 1.38  | 2.90  | 4.75  | 0.43  | 2.35 | 1.45 | 7.56 | 46.77  |
| 1906. | 5.73 | 3.39 | 3.26 | 1.07 | 2.61 | 13.86 | 5.98  | 6.26  | 5.95  | 3.13 | 0.94 | 3.50 | 55.18  |
| 1907. | 0.83 | 5.43 | 0.84 | 5.38 | 5.44 | 8.60  | 6.12  | 3.93  | 7.38  | 0.25 | 5.43 | 4.48 | 53.11  |
| M's   | 2.88 | 5.14 | 3.29 | 3.51 | 3.60 | 6.36  | 6.16  | 6.26  | 3.59  | 2.34 | 2.24 | 3.55 | 48.92  |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest monthly mean. | Year. | Lowest monthly mean. | Year. | Greatest monthly. | Year. | Least monthly. | Year. |
| January   | 53                    | 1897  | 41                   | *1904 | 5.73              | 1906  | 0.83           | 1907  |
| February  | 51                    | 1897  | 34                   | 1905  | 7.45              | 1905  | 0.88           | 1898  |
| March     | 62                    | *1903 | 51                   | 1900  | 6.24              | 1895  | 0.84           | 1907  |
| April     | 69                    | 1893  | 50                   | 1907  | 6.88              | 1895  | 1.07           | 1906  |
| May       | 77                    | 1890  | 69                   | 1895  | 8.66              | 1890  | 1.42           | 1899  |
| June      | 85                    | 1894  | 74                   | *1887 | 18.25             | 1903  | 1.38           | 1905  |
| July      | 82                    | 1900  | 77                   | *1884 | 11.29             | 1900  | 2.90           | 1905  |
| August    | 84                    | 1900  | 76                   | 1889  | 11.58             | 1895  | 1.32           | 1900  |
| September | 79                    | 1900  | 72                   | 1882  | 7.38              | 1907  | 0.93           | 1905  |
| October   | 69                    | 1900  | 60                   | 1907  | 7.67              | 1899  | 0.25           | *1904 |
| November  | 60                    | 1896  | 49                   | 1901  | 5.43              | 1907  | 0.60           | 1892  |
| December  | 49                    | 1897  | 42                   | 1903  | 7.56              | 1905  | 1.82           | 1897  |

\* And other years.

## COMPARATIVE NOVEMBER DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |                |                |                | Average number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|----------------|----------------|----------------|----------------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average.       | Greatest monthly. |                | Least monthly. |                |                            |                            |
|           |              |               |               |          |          |                | Amount.           | Place.         | Amount.        | Place.         |                            |                            |
| 1894..... | 52.3         | 62.7          | 42.3          | 83       | 17       | 2.02           | 4.20              | Pinopolis.     | 0.61           | Spartanburg.   | 4                          | nw.                        |
| 1895..... | 54.4         | 64.7          | 44.4          | 88       | 21       | 2.35           | 4.46              | Pinopolis.     | 0.40           | Shaw's Fork.   | 6                          | ne.                        |
| 1896..... | 59.1         | 70.0          | 48.6          | 90       | 26       | 4.00           | 9.84              | Greenville.    | 1.12           | St. Matthews.  | 7                          | ne.                        |
| 1897..... | 55.3         | 66.9          | 43.7          | 88       | 23       | 1.99           | 5.05              | Gaffney.       | 0.26           | Gillisonville. | 5                          | sw.                        |
| 1898..... | 51.0         | 61.1          | 41.0          | 82       | 14       | 4.72           | 6.41              | Gillisonville. | 2.58           | Yorkville.     | 10                         | ne.                        |
| 1899..... | 55.0         | 65.8          | 44.1          | 86       | 22       | 2.41           | 8.10              | Georgetown.    | 0.72           | Florence.      | 5                          | ne.                        |
| 1900..... | 55.6         | 66.6          | 44.6          | 92       | 22       | 3.32           | 5.45              | Spartanburg.   | 1.50           | Georgetown.    | 6                          | sw.                        |
| 1901..... | 48.2         | 60.2          | 36.2          | 85       | 17       | 1.01           | 3.10              | Georgetown.    | 0.36           | Winnsboro.     | 5                          | n.                         |
| 1902..... | 59.2         | 69.5          | 48.8          | 89       | 22       | 3.80           | 7.01              | Greenville.    | 1.70           | Calhoun Falls. | 6                          | ne.                        |
| 1903..... | 50.9         | 61.5          | 40.3          | 86       | 10       | 1.40           | 3.17              | Batesburg.     | T.             | Georgetown.    | 5                          | n.                         |
| 1904..... | 51.6         | 63.5          | 39.7          | 80       | 22       | 2.78           | 4.39              | Yorkville.     | 1.20           | Conway.        | 6                          | w.                         |
| 1905..... | 54.5         | 66.7          | 42.3          | 90       | 21       | 1.31           | 2.41              | Liberty.       | 0.00           | St. George.    | 3                          | sw.                        |
| 1906..... | 53.8         | 66.7          | 41.0          | 89       | 20       | 0.96           | 3.36              | Walhalla.      | T.             | Winnsboro.     | 3                          | ne.                        |
| 1907..... | 52.2         | 62.7          | 41.7          | 87       | 24       | 4.13           | 8.25              | Greenwood.     | 1.22           | Charleston.    | 10                         | ne.                        |
| 1908..... | 56.6         | 68.0          | 45.2          | 88       | 24       | 1.60           | 3.09              | Greenville.    | 0.54           | Bowman.        | 3                          | sw.                        |



## CLIMATOLOGICAL DATA FOR THE MONTH OF NOVEMBER, 1908.

|                                 |                   | Temperature—in degrees Fahrenheit |                         |       |                            |         |        |       |       |        |                            | Precipitation—in inches  |                              |                    |                     |                                  | Sky.             |                       |                      |  |  | Observations |
|---------------------------------|-------------------|-----------------------------------|-------------------------|-------|----------------------------|---------|--------|-------|-------|--------|----------------------------|--------------------------|------------------------------|--------------------|---------------------|----------------------------------|------------------|-----------------------|----------------------|--|--|--------------|
| STATIONS.                       | Counties          | Elevation (feet)                  | Length of record, years | Mean  | Departure from the normal. | Highest | Lowest | Range | Days  | Total. | Departure from the normal. | Greatest No. in one day. | Total snowfall in the month. | Number rainy days. | Number cloudy days. | Number of days with snow or ice. | Prevailing wind. |                       |                      |  |  |              |
| Aiken.....                      | Aiken.....        | 565                               | 24                      | 58.6  | +1.7                       | 83      | *11    | 40    | 6     | 1.10   | -1.10                      | 1.10                     | 0                            | 1                  | 23                  | 5                                | sw               | C. F. McGahan, M. D.  |                      |  |  |              |
| Allendale <sup>a</sup>          | Barnwell.....     | 186                               | 29                      | 58.4  | +1.7                       | 82      | *9     | 31    | 46    | 0.94   | -1.32                      | 0.42                     | 0                            | 1                  | 14                  | 2                                | sw               | A. R. Hoot            |                      |  |  |              |
| Anderson.....                   | Anderson.....     | 794                               | 7                       | 58.2  | +4.1                       | 77      | *10    | 26    | 18    | 1.00   | -0.92                      | 1.08                     | 0                            | 2                  | 18                  | 2                                | sw               | H. H. Russell         |                      |  |  |              |
| Augusta, Ga.....                | Richmond.....     | 134                               | 37                      | 57.9  | +4.0                       | 83      | 11     | 34    | 19    | 1.52   | -1.13                      | 1.49                     | 0                            | 4                  | 14                  | 1                                | sw               | Weather Bureau        |                      |  |  |              |
| Barksdale.....                  | Laurens.....      | 680                               | 1                       | ..... | .....                      | .....   | .....  | ..... | ..... | .....  | .....                      | .....                    | .....                        | .....              | .....               | .....                            | .....            | J. T. Garrett         |                      |  |  |              |
| Batesburg <sup>a</sup>          | Lexington.....    | 656                               | 20                      | 56.3  | +2.4                       | 77      | 8      | 10    | 18    | 37     | -0.61                      | 1.23                     | 0                            | 1                  | 14                  | 6                                | sw               | I. J. Hite            |                      |  |  |              |
| Beaufort.....                   | Beaufort.....     | 20                                | 22                      | 62.3  | +3.3                       | 79      | 41     | 44    | 8     | 2.29   | -0.08                      | 1.85                     | 0                            | 1                  | 23                  | 8                                | sw               | Miss I. G. Rice       |                      |  |  |              |
| Bennettsville.....              | Marlboro.....     | 181                               | 7                       | ..... | .....                      | .....   | .....  | ..... | ..... | .....  | .....                      | .....                    | .....                        | .....              | .....               | .....                            | .....            | C. S. McCall          |                      |  |  |              |
| Blackville <sup>a</sup>         | Barnwell.....     | 296                               | 29                      | 58.4  | 3.0                        | 85      | *10    | 31    | 5     | 2.17   | -1.11                      | 0.92                     | 0                            | 4                  | 8                   | 14                               | sw               | Miss M. I. Lange      |                      |  |  |              |
| Blair <sup>a</sup>              | Fairfield.....    | 253                               | 3                       | ..... | .....                      | .....   | .....  | ..... | ..... | 1.68   | 1.00                       | .....                    | 0                            | 1                  | 17                  | 6                                | sw               | T. S. McMeekin        |                      |  |  |              |
| Bowman.....                     | Orangeburg.....   | 106                               | 7                       | 57.2  | .....                      | 84      | 11     | 28    | 6     | 0.54   | 0.46                       | .....                    | 0                            | 2                  | 21                  | 8                                | sw               | B. O. Evans           |                      |  |  |              |
| Calhoun Falls <sup>a</sup>      | Abbeville.....    | 508                               | 18                      | ..... | .....                      | .....   | .....  | ..... | ..... | 1.44   | -1.38                      | 0.64                     | 0                            | 1                  | 21                  | 1                                | sw               | P. J. Pfeifer         |                      |  |  |              |
| Camden (1) <sup>a</sup>         | Kershaw.....      | 2                                 | 2                       | 55.8  | .....                      | 79      | 11     | 29    | 19    | 1.41   | 1.06                       | .....                    | 0                            | 2                  | 18                  | 7                                | sw               | J. B. Mickie          |                      |  |  |              |
| Camden (2) <sup>a</sup>         | Kershaw.....      | 222                               | 42                      | ..... | .....                      | .....   | .....  | ..... | ..... | 1.36   | -0.41                      | 1.00                     | 0                            | 1                  | 18                  | 7                                | sw               | W. C. Brown           |                      |  |  |              |
| Catawba <sup>a</sup>            | York.....         | 462                               | 3                       | ..... | .....                      | .....   | .....  | ..... | ..... | 2.36   | 1.24                       | .....                    | 0                            | 4                  | 19                  | 1                                | sw               | Jas. C. Latis         |                      |  |  |              |
| Chapin <sup>a</sup>             | Newberry.....     | 462                               | 3                       | ..... | .....                      | .....   | .....  | ..... | ..... | 1.80   | 1.10                       | .....                    | 0                            | 3                  | 9                   | 12                               | sw               | W. R. Zimmerman       |                      |  |  |              |
| Charleston.....                 | Charleston.....   | 48                                | 31                      | 60.8  | +2.7                       | 80      | 11     | 38    | 15    | 2.75   | 0.12                       | 2.56                     | 0                            | 4                  | 12                  | 11                               | sw               | Weather Bureau        |                      |  |  |              |
| Charleston, N. C.....           | Mecklenburg.....  | 808                               | 30                      | 53.2  | +2.8                       | 73      | 9      | 30    | 13    | 27     | 1.09                       | 1.17                     | 1.21                         | 0                  | 5                   | 12                               | 12               | sw                    | Weather Bureau       |  |  |              |
| Cheraw (1) <sup>a</sup>         | Chesterfield..... | 144                               | 20                      | 53.4  | +1.2                       | 77      | 11     | 27    | 19    | 31     | -2.63                      | 1.24                     | 0                            | 2                  | 14                  | 4                                | sw               | W. R. Godfrey         |                      |  |  |              |
| Cheraw (2) <sup>a</sup>         | Chesterfield..... | 87                                | 18                      | ..... | .....                      | .....   | .....  | ..... | ..... | 1.61   | -0.97                      | 1.30                     | 0                            | 3                  | 14                  | 9                                | sw               | Jno. H. Powe          |                      |  |  |              |
| Clarks Hill.....                | Edgefield.....    | 500                               | 6                       | 56.8  | .....                      | 71      | *9     | 15    | 38    | 1.1    | 1.00                       | .....                    | 0                            | 2                  | 14                  | 7                                | sw               | Wm. S. Middleton      |                      |  |  |              |
| Clemson College.....            | Oconee.....       | 850                               | 17                      | 53.0  | +2.8                       | 72      | *9     | 15    | 31    | 1.66   | -1.27                      | 0.91                     | 0                            | 2                  | 20                  | 2                                | sw               | Jno. N. Hook          |                      |  |  |              |
| Columbia.....                   | Richland.....     | 351                               | 24                      | 50.9  | +3.1                       | 80      | 9      | 10    | 15    | 32     | -0.73                      | 1.11                     | 0                            | 2                  | 9                   | 15                               | sw               | Section Center        |                      |  |  |              |
| Conway <sup>a</sup>             | Horry.....        | 25                                | 10                      | 58.0  | .....                      | 83      | 11     | 31    | 6     | 34     | 1.24                       | -2.20                    | 1.14                         | 0                  | 1                   | 16                               | 2                | sw                    | P. C. Quattlebaum    |  |  |              |
| Darlington.....                 | Darlington.....   | 175                               | 13                      | 54.6  | .....                      | 82      | 11     | 25    | 16    | 35     | 1.11                       | -1.53                    | 0.84                         | 0                  | 3                   | .....                            | .....            | D. C. McCall          |                      |  |  |              |
| Dillon.....                     | Marion.....       | 100                               | 4                       | 55.0  | .....                      | 82      | 11     | 26    | 10    | 35     | 0.75                       | 0.68                     | .....                        | 0                  | 3                   | .....                            | .....            | A. E. Rowell          |                      |  |  |              |
| Edlingham <sup>a</sup>          | Florence.....     | 166                               | 16                      | ..... | .....                      | .....   | .....  | ..... | ..... | 1.05   | -1.59                      | 1.05                     | 0                            | 2                  | 23                  | 0                                | sw               | H. B. McCall          |                      |  |  |              |
| Ferguson <sup>a</sup>           | Berkeley.....     | 51                                | 1                       | ..... | .....                      | .....   | .....  | ..... | ..... | 0.70   | 0.70                       | .....                    | 0                            | 1                  | 22                  | 1                                | sw               | D. B. Gilliland, jr.  |                      |  |  |              |
| Florence.....                   | Florence.....     | 130                               | 20                      | 55.6  | +1.3                       | 88      | 10     | 28    | 16    | 38     | -1.14                      | 1.08                     | 0                            | 2                  | 17                  | 6                                | sw               | H. K. Gilbert         |                      |  |  |              |
| Georgetown.....                 | Georgetown.....   | 12                                | 18                      | 51.1  | +3.2                       | 83      | 11     | 32    | 15    | 33     | 2.13                       | -0.21                    | 2.00                         | 0                  | 1                   | 18                               | 10               | sw                    | Wm. Alden James      |  |  |              |
| Greenville <sup>a</sup>         | Greenville.....   | 939                               | 16                      | 52.0  | +2.7                       | 78      | 9      | 28    | *10   | 45     | -0.24                      | 1.10                     | 0                            | 8                  | 14                  | 1                                | sw               | Mrs. S. A. Crittenden |                      |  |  |              |
| Greenwood <sup>a</sup>          | Greenwood.....    | 671                               | 20                      | 53.9  | +2.0                       | 76      | 11     | 30    | *15   | 35     | 2.03                       | -0.88                    | 0.80                         | 0                  | 1                   | 20                               | 0                | sw                    | M. M. Calhoun        |  |  |              |
| Heath Springs.....              | Lancaster.....    | 598                               | 7                       | ..... | .....                      | .....   | .....  | ..... | ..... | .....  | .....                      | .....                    | .....                        | .....              | .....               | .....                            | .....            | J. A. Weaner          |                      |  |  |              |
| Jacksonboro.....                | Colleton.....     | 13                                | 0                       | 57.2  | .....                      | 71      | 11     | 30    | 6     | 33     | 2.62                       | 1.73                     | 0                            | 1                  | 23                  | 0                                | sw               | W. E. Haskell, jr.    |                      |  |  |              |
| Kingstree (1) <sup>a</sup>      | Williamsburg..... | 54                                | 20                      | 58.3  | 3.1                        | 82      | 11     | 31    | 10    | 32     | 0.96                       | -1.32                    | 0.85                         | 0                  | 4                   | 21                               | 1                | sw                    | J. A. Scott          |  |  |              |
| Kingstree (2) <sup>a</sup>      | Williamsburg..... | 50                                | 14                      | ..... | .....                      | .....   | .....  | ..... | ..... | 0.90   | -1.54                      | 0.90                     | 0                            | 1                  | 17                  | 3                                | sw               | A. O. Matthews        |                      |  |  |              |
| Liberty.....                    | Pickens.....      | 900                               | 14                      | 55.8  | +5.1                       | 76      | 26     | 25    | 16    | 44     | 1.55                       | 2.11                     | 0.80                         | 0                  | 4                   | 18                               | 10               | sw                    | Jno. T. Boggs        |  |  |              |
| Little Mountain.....            | Newberry.....     | 630                               | 15                      | 55.8  | +1.2                       | 76      | 9      | 29    | 16    | 33     | 2.14                       | 0.37                     | 1.79                         | 0                  | 2                   | 18                               | 10               | sw                    | John M. Sease, M. D. |  |  |              |
| Newberry.....                   | Newberry.....     | 502                               | 4                       | 53.2  | 0.6                        | 78      | 11     | 27    | 16    | 37     | 1.61                       | -1.42                    | 0.82                         | 0                  | 4                   | 9                                | 13               | sw                    | W. G. Peterson       |  |  |              |
| Pelzer <sup>a</sup>             | Anderson.....     | 873                               | 3                       | ..... | .....                      | .....   | .....  | ..... | ..... | 1.80   | 1.10                       | .....                    | 0                            | 3                  | 11                  | 9                                | sw               | John M. Ward          |                      |  |  |              |
| Pinopolis <sup>a</sup>          | Berkeley.....     | 54                                | 15                      | ..... | .....                      | .....   | .....  | ..... | ..... | .....  | .....                      | .....                    | .....                        | .....              | .....               | .....                            | .....            | Miss E. P. Ravenel    |                      |  |  |              |
| St. George <sup>a</sup>         | Dorchester.....   | 172                               | 20                      | 61.5  | +6.3                       | 82      | 11     | 32    | 6     | 30     | 0.90                       | -1.24                    | 0.90                         | 0                  | 1                   | 23                               | 0                | sw                    | G. T. Lewis          |  |  |              |
| St. Matthews <sup>a</sup>       | Calhoun.....      | 269                               | 20                      | 55.4  | +0.4                       | 80      | 11     | 32    | *6    | 40     | 1.29                       | -1.04                    | 0.80                         | 0                  | 3                   | 23                               | 0                | sw                    | J. S. Wannamaker     |  |  |              |
| Saluda.....                     | Saluda.....       | 536                               | 6                       | 55.6  | .....                      | 80      | 11     | 28    | *15   | 34     | 2.06                       | 1.56                     | .....                        | 0                  | 4                   | 17                               | 2                | sw                    | Alvin Etheridge      |  |  |              |
| Santee.....                     | Union.....        | 512                               | 14                      | 54.2  | +3.1                       | 78      | 4      | 26    | *15   | 34     | 1.86                       | -1.11                    | 1.09                         | 0                  | 3                   | 11                               | 14               | sw                    | E. W. Jeter          |  |  |              |
| Savannah, Ga.....               | Chatham.....      | 71                                | 39                      | 61.1  | +3.6                       | 79      | 9      | 38    | 15    | 26     | 2.07                       | 0.30                     | 1.62                         | 0                  | 4                   | 12                               | 12               | sw                    | Weather Bureau       |  |  |              |
| Smiths Mills <sup>a</sup>       | Williamsburg..... | 62                                | 13                      | ..... | .....                      | .....   | .....  | ..... | ..... | 1.71   | -0.80                      | 1.42                     | 0                            | 3                  | 20                  | 1                                | sw               | W. G. Walker          |                      |  |  |              |
| Society Hill.....               | Darlington.....   | 192                               | 17                      | 54.2  | +1.8                       | 76      | 11     | 28    | 15    | 32     | 1.34                       | -1.10                    | 1.16                         | 0                  | 3                   | 24                               | 1                | sw                    | J. J. Lucas          |  |  |              |
| Spartanburg <sup>a</sup>        | Spartanburg.....  | 875                               | 17                      | 53.8  | 2.5                        | 87      | 22     | 24    | 16    | 44     | 1.51                       | -1.46                    | 0.94                         | 0                  | 4                   | 13                               | 1                | sw                    | F. P. Robinson       |  |  |              |
| Stateburg.....                  | Sumter.....       | 500                               | 31                      | ..... | .....                      | .....   | .....  | ..... | ..... | .....  | .....                      | .....                    | .....                        | .....              | .....               | .....                            | .....            | W. W. Anderson, M. D. |                      |  |  |              |
| Summerville.....                | Dorchester.....   | 75                                | 11                      | 58.9  | +3.5                       | 82      | *26    | 28    | 6     | 39     | 1.26                       | -1.50                    | 1.15                         | 0                  | 3                   | 8                                | 20               | sw                    | Miss E. H. Gadsden   |  |  |              |
| Trenton <sup>a</sup>            | Edgefield.....    | 620                               | 15                      | 56.3  | +0.8                       | 77      | 11     | 30    | 10    | 26     | 1.67                       | -0.98                    | 1.30                         | 0                  | 2                   | 14                               | 15               | sw                    | C. A. Long           |  |  |              |
| Trial.....                      | Berkeley.....     | 85                                | 22                      | 57.6  | +2.1                       | 82      | *9     | 26    | 6     | 40     | 0.93                       | -1.42                    | 0.85                         | 0                  | 2                   | 4                                | 21               | sw                    | Etsell Gaillard      |  |  |              |
| Walterboro.....                 | Colleton.....     | 63                                | 5                       | 60.8  | .....                      | 86      | 27     | 29    | 6     | 44     | 1.40                       | 1.22                     | .....                        | 0                  | 3                   | 18                               | 8                | sw                    | J. A. Westerberg     |  |  |              |
| Wilmington, N. C.....           | New Hanover.....  | 52                                | 39                      | 57.8  | 3.7                        | 80      | 11     | 34    | 6     | 20     | 2.07                       | -0.38                    | 1.95                         | 0                  | 4                   | 17                               | 11               | sw                    | Weather Bureau       |  |  |              |
| Winnabow.....                   | Fairfield.....    | 545                               | 19                      | 56.4  | +2.7                       | 77      | *9     | 31    | 16    | 33     | 2.00                       | -0.44                    | 2.00                         | 0                  | 1                   | 20                               | 9                | sw                    | John W. Seigler      |  |  |              |
| Winthrop College.....           | York.....         | 690                               | 9                       | 54.2  | .....                      | 75      | 11     | 27    | 16    | 37     | 1.88                       | 1.25                     | .....                        | 0                  | 2                   | 23                               | 4                | sw                    | E. R. Rivers         |  |  |              |
| Yemassee <sup>a</sup>           | Beaufort.....     | 23                                | 13                      | 57.0  | +1.0                       | 79      | *11    | 29    | 6     | 32     | 1.02                       | 1.12                     | 0.89                         | 0                  | 3                   | 19                               | 2                | sw                    | J. G. Hutson         |  |  |              |
| Means, extremes, and dates..... |                   |                                   |                         | 56.6  | +2.7                       | 88      | 10     | 24    | 16    | 45     | 1.60                       | 1.36                     | 2.56                         | 0                  | 3                   | 16                               | 10               | 4                     | sw                   |  |  |              |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed non-registering thermometer not standard. \* On other dates also. a. Indicates 1 day missing; b. 2 days, etc. ° The state of sky at 8 a. m. not used in averages.

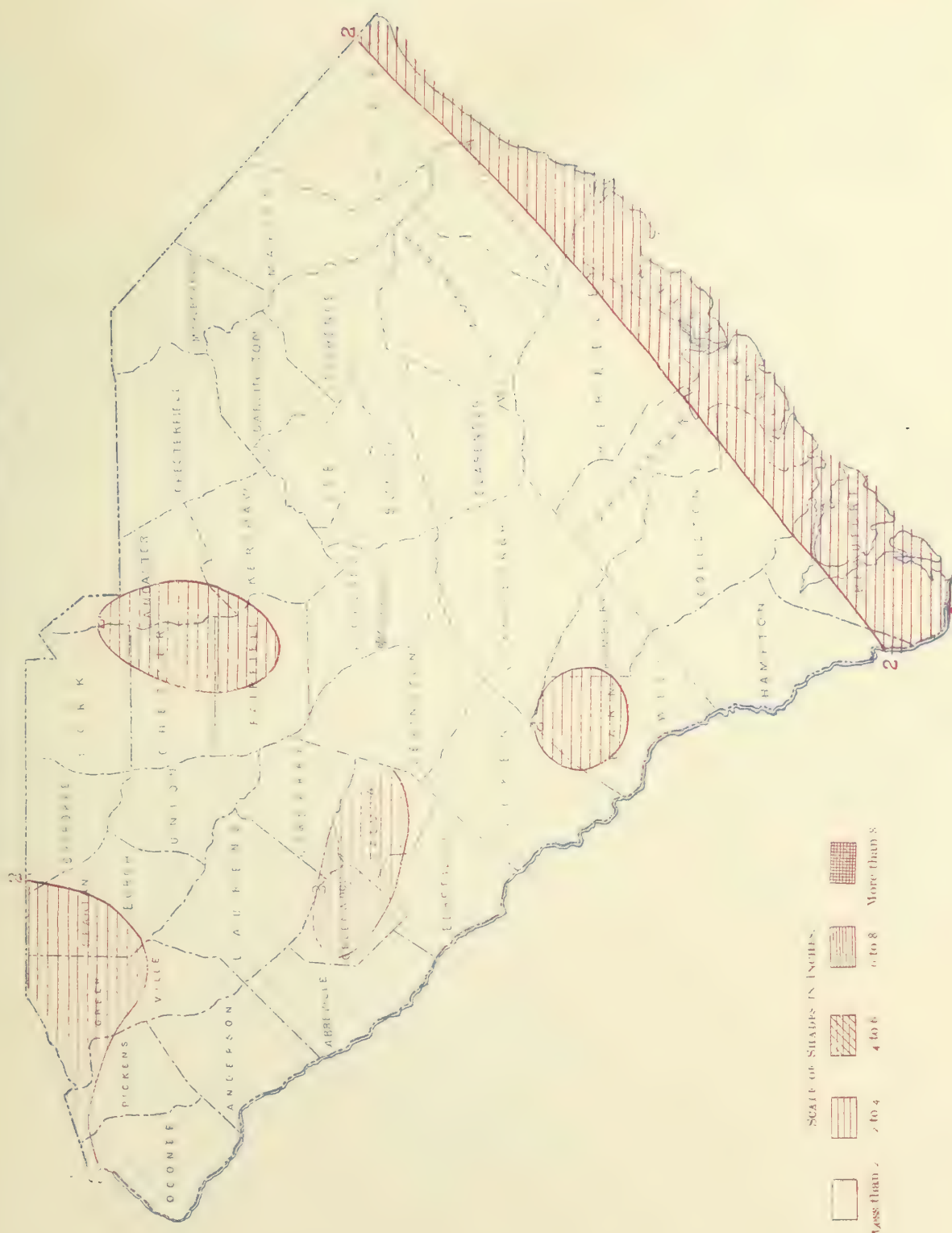


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\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs.  
† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR NOVEMBER, 1918



## DAILY PRECIPITATION FOR SOUTH CAROLINA, NOVEMBER, 1908.

| STATIONS.         | DAY OF MONTH. |     |     |     |     |   |   |   |     |     |      |     |     |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | TOTAL. |
|-------------------|---------------|-----|-----|-----|-----|---|---|---|-----|-----|------|-----|-----|------|------|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|------|--------|
|                   | 1             | 2   | 3   | 4   | 5   | 6 | 7 | 8 | 9   | 10  | 11   | 12  | 13  | 14   | 15   | 16  | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25  | 26  | 27  | 28  | 29  | 30  | 31   |        |
| Aiken             |               |     |     |     |     |   |   |   |     |     |      |     |     | 1.10 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.10 |        |
| Allendale*        |               |     |     |     |     |   |   |   |     |     |      |     | .32 | .32  | .30  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 0.94 |        |
| Anderson          |               |     |     | .74 |     |   |   |   |     |     |      |     |     | 1.25 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.99 |        |
| Augusta, Ga.      |               |     | T.  | .09 |     |   |   |   |     |     |      |     | .07 | 1.42 |      |     |    |    |    |    |    |    |    |    |     |     | .01 |     |     |     | 1.59 |        |
| Barksdale         |               |     |     |     |     |   |   |   |     |     |      |     |     |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |        |
| Batesburg*        |               |     |     | .32 |     |   |   |   |     |     |      |     |     | 1.23 | .36  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.91 |        |
| Beaufort          |               |     |     | .32 |     |   |   |   |     |     | .12  |     |     | 1.85 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 2.29 |        |
| Bennettsville     |               |     |     |     |     |   |   |   |     |     |      |     |     |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |        |
| Blackville*       |               |     | .15 |     |     |   |   |   |     |     |      |     | .53 | .92  |      |     |    |    |    |    |    |    |    |    |     |     |     | .77 |     |     | 2.37 |        |
| Blairs*           |               |     |     | .06 |     |   |   |   |     |     |      |     |     | 1.02 | .60  |     |    |    |    |    |    |    |    |    |     |     | T.  | T.  | T.  |     | 1.68 |        |
| Bowman            |               |     |     | .08 |     |   |   |   |     |     |      |     |     | .46  |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 0.54 |        |
| Calhoun Falls*    |               |     |     | .64 |     |   |   |   |     |     |      |     |     | .52  | .18  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.34 |        |
| Camden (1)        |               |     |     | .35 |     |   |   |   |     |     |      |     |     | 1.06 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.41 |        |
| Camden (2)*       |               |     |     | .34 |     |   |   |   |     |     |      |     |     | .52  | .54  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.36 |        |
| Catawba*          |               |     |     | .74 |     |   |   |   |     | .16 |      |     |     | .62  | 1.24 |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 2.36 |        |
| Chappells*        |               |     |     | .40 |     |   |   |   |     |     |      |     |     | 1.10 | .30  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.80 |        |
| Charleston        |               |     |     | .12 |     |   |   |   | .05 |     |      |     |     | 2.56 |      |     |    |    |    |    |    |    |    |    |     | .01 |     |     |     |     | 2.75 |        |
| Charlotte, N. C.  |               |     |     | .33 |     |   |   |   | .11 |     |      |     |     | 1.23 |      |     |    |    |    | T. |    |    |    | T. |     | T.  | .01 |     | .01 |     | 1.69 |        |
| Cheraw (1)*       |               |     |     | .24 |     |   |   |   |     |     |      |     |     | .40  | .84  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.53 |        |
| Cheraw (2)*       |               |     |     | .31 |     |   |   |   |     |     |      |     |     | 1.01 | 1.20 |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.61 |        |
| Cheraw (3)*       |               |     |     |     |     |   |   |   |     |     |      |     |     |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |        |
| Clarks Hill       |               |     | .39 |     |     |   |   |   |     |     |      |     |     | 1.00 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.39 |        |
| Clemson College   |               |     |     | .75 |     |   |   |   |     |     |      |     |     | .91  |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.66 |        |
| Columbia          |               |     | T.  |     |     |   |   |   |     |     | 1.11 |     |     |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.30 |        |
| Conway*           |               |     | T.  |     |     |   |   |   |     |     |      |     |     | .16  | .98  |     |    |    |    |    |    |    |    |    | .10 |     |     |     |     |     | 1.24 |        |
| Darlington        |               |     |     | .21 |     |   |   |   |     |     |      |     |     | .06  | .84  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.11 |        |
| Dillon            |               |     |     | .05 |     |   |   |   |     |     |      | .02 |     | .68  |      |     |    |    |    |    |    |    |    |    | T.  |     |     |     |     |     | 0.75 |        |
| Edtingham*        |               |     |     |     |     |   |   |   |     |     |      |     |     | .15  | .90  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.05 |        |
| Ferguson*         |               |     |     |     |     |   |   |   |     |     |      |     | .70 |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 0.70 |        |
| Florence*         |               |     |     | T.  |     |   |   |   |     |     |      |     |     | T.   | 1.05 |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 1.26 |        |
| Georgetown        |               |     | .08 |     |     |   |   |   |     |     |      |     | .05 | 2.00 |      |     |    |    |    |    |    |    |    | T. | T.  |     |     |     |     | T.  | 2.13 |        |
| Greenville*       |               |     |     | .56 | .02 |   |   |   |     | .26 | .02  |     |     | .95  | 1.10 |     |    |    |    |    |    |    |    |    |     |     | .03 | .15 |     |     | T.   | 3.69   |
| Greenwood*        |               |     |     | .89 |     |   |   |   |     |     |      |     |     |      | .75  | .39 |    |    |    |    |    |    |    |    |     |     |     |     |     |     | T.   | 2.03   |
| Heath Springs     |               |     |     |     |     |   |   |   |     |     |      |     |     |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |        |
| Jacksonboro       |               |     |     | .36 |     |   |   |   |     |     | .53  |     |     | 1.73 |      |     |    |    |    |    |    |    |    | T. |     |     |     |     |     |     |      | 2.62   |
| Kingstree (1)*    |               |     |     | .03 |     |   |   |   |     |     |      |     |     | .06  | .85  |     |    |    |    |    |    |    |    |    | T.  | .02 |     |     |     |     |      | 0.96   |
| Kingstree (2)*    |               |     |     |     |     |   |   |   |     |     |      |     |     | T.   | .00  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | 0.90 |        |
| Liberty           |               |     | .10 | .55 |     |   |   |   |     |     | .10  |     |     | .80  |      |     |    |    |    |    |    |    |    |    |     | T.  |     |     |     |     | T.   | 1.55   |
| Little Mountain   |               |     |     | .35 |     |   |   |   |     |     |      |     |     | 1.79 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     | T.   | 2.14   |
| Newberry          |               |     | .29 |     |     |   |   |   |     |     |      |     | .82 | .40  |      |     |    |    |    |    |    |    |    |    |     |     |     |     | .10 |     |      | 1.61   |
| Pelzer*           |               |     |     | .64 |     |   |   |   |     |     | .06  |     |     | 1.10 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | 1.80   |
| Pinopolis         |               |     |     |     |     |   |   |   |     |     |      |     |     |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |        |
| St. George*       |               |     |     |     |     |   |   |   |     |     |      |     |     | T.   | .90  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | 0.90   |
| St. Matthews*     |               |     |     | .10 |     |   |   |   |     |     |      |     |     | .30  | .80  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | 1.20   |
| Saluda            |               |     | .44 |     |     |   |   |   |     |     |      |     |     | 1.56 | .02  |     |    |    |    |    |    |    |    |    |     |     |     |     |     | .04 |      | 2.06   |
| Santee            |               |     |     | .70 |     |   |   |   |     |     |      | .07 |     | 1.09 |      |     |    |    |    |    |    |    |    | T. |     |     |     |     |     |     |      | 1.86   |
| Savannah, Ga.     |               |     | .02 | .35 |     |   |   |   |     |     |      | .08 |     | 1.62 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | 2.07   |
| Smiths Mills*     |               | .18 |     |     |     |   |   |   |     |     |      |     |     | .11  | 1.42 |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | 1.71   |
| Society Hill      |               |     | .14 |     |     |   |   |   |     |     | 1.16 |     |     |      |      |     |    |    |    |    |    |    |    |    |     | .04 |     |     |     |     |      | 1.34   |
| Spartanburg*      |               |     |     | .47 |     |   |   |   |     |     | .10  |     |     | .62  | .32  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | 1.51   |
| Stateburg         |               |     |     |     |     |   |   |   |     |     |      |     |     |      |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      |        |
| Summerville       |               |     | .07 |     |     |   |   |   |     |     |      | T.  |     | 1.15 |      |     |    |    |    |    |    |    |    |    | T.  |     |     |     |     | .04 |      | 1.26   |
| Trenton           |               |     | .37 |     |     |   |   |   |     |     |      |     |     | 1.30 |      |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | 1.67   |
| Tryon             |               |     |     |     |     |   |   |   |     |     |      |     |     | .85  |      |     |    |    |    |    |    |    |    |    |     |     |     | .08 |     |     |      | 0.93   |
| Walterboro        |               |     | .16 |     |     |   |   |   |     |     |      |     |     | 1.22 | .02  |     |    |    |    |    |    |    |    |    | T.  | T.  |     |     |     |     |      | 1.40   |
| Wilmington, N. C. |               |     | .02 |     |     |   |   |   |     |     |      | T.  |     | 1.95 |      |     |    |    |    |    |    |    |    |    | .03 | T.  |     | .07 |     |     |      | 2.07   |
| Winnsboro         |               |     |     |     |     |   |   |   |     |     |      |     |     | 2.00 |      |     |    |    |    |    |    |    |    |    | T.  |     |     |     |     |     |      | 2.00   |
| Winthrop College  |               |     | .63 |     |     |   |   |   |     |     |      | T.  |     | 1.25 |      |     |    |    |    |    |    |    |    |    |     | T.  |     |     |     |     |      | 1.88   |
| Yemassee*         |               |     | .13 |     |     |   |   |   |     |     |      |     |     | .37  | .52  |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |      | 1.02   |

\*Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR DECEMBER, 1908

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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UNDER DIRECTION OF

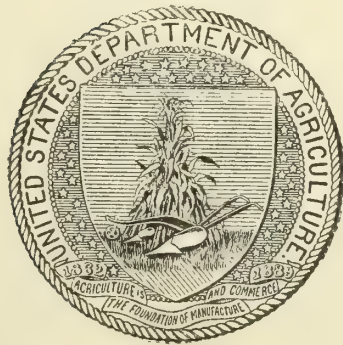
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



PITTSBURG, PA.

WEATHER BUREAU OFFICE

JANUARY 25, 1908

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR DECEMBER, 1908

Arrows fly with the wind.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

Vol. XI. COLUMBIA, S. C., DECEMBER, 1908. No. 12.

## GENERAL SUMMARY.

The month was unusually mild, and there were no cold waves or extreme low temperatures; the precipitation, tho below the normal, was ample, and there was slightly more than the average amount of bright sunshine. It was the warmest December of record, the mean temperature having been over a degree higher than in 1898, which was the previous warmest December, and it was 5° higher than the normal. The coldest December occurred in 1903, with a mean of 41.0°, or nearly 10° lower than the present month. The rainfall was not so well distributed, having been deficient along the coast, where the departures below the normal ranged from one inch to over two and a half inches; it was slightly above the normal in the mountain districts, where the excess was generally small, tho slightly over an inch at one station. The average precipitation was greater than in 1897, 1899 or 1903, and was less than in any other December since 1894. The wettest December occurred in 1905 with 7.25 inches, and the driest in 1903 with 1.95 inches.

The mean temperature ranged from 57.4° in the extreme southern portion to 47.2° in the extreme northwestern portion, the decrease having been unusually uniform from the coast to the mountains. The highest temperatures for the month occurred at most stations on the 1st, being a continuation of the warm period at the close of November, and this was followed by a period of cool weather, with the daily mean temperatures generally below the normal, to the 11th, after which to the end of the month the temperature was above the normal, with a few unimportant exceptions. The 1st, 15th, 16th, 17th and 18th were the warmest days, and the coolest days were the 3d and 9th, the lowest temperatures having occurred generally on those days at all stations, with slightly below freezing temperatures on both dates except along the immediate coast.

The precipitation was less than two inches in the southern counties, and ranged from two inches to four inches in the central and northeastern counties, and was in excess of four inches in the northwestern portion, and was over six inches in the mountain districts. The average number of days with rain was smaller than usual, tho greater than in 1895 or 1903, and was the same as in 1894, 1896, 1899, 1902 and 1906. The precipitation was all in the form of rain except on the 25th, when a trace of snow, melting as it fell, was recorded in the northwestern counties; light hail was recorded at a few places on the same date.

## TEMPERATURE.

The mean temperature was 50.6, which is 5.0 above the normal. The highest local monthly mean was 57.4, at Beaufort; the lowest was 47.2, at Greenville. The monthly temperature extremes were 83 at Walterboro on the 1st, and 23 at Bowman on the 9th, making the State range 60.0°. The greatest local monthly range was 59, at Bowman; the least was 40°, at Beaufort and Charleston. The mean of the daily maximum temperatures was 60.8, and of the daily minimum temperatures was 40.5°, making the average daily range 20.3°.

## PRECIPITATION.

The average precipitation was 2.84 inches, which is 0.94 of an inch below the normal. The greatest local monthly amount was 5.90 inches, at Clemson College; the least was 0.94 of an inch, at Charleston. The greatest 24-hour rainfall was 2.65 inches, at Winthrop College on the 21st-22d.

EXCESSIVE PRECIPITATION.—At Santuc on the 21st-22d, 2.62 inches in 24 hours; at Winthrop College on the 21st-22d, 2.65 inches in 24 hours.

## WIND.

The prevailing wind was west and southwest at 12 stations each, northeast at 7 stations, northwest at 6 stations, north and southeast at 3 stations each, and south at 1 station.

## CLOUDINESS.

The average number of clear days was 13, of partly cloudy days 9, and of cloudy days 9.

## MISCELLANEOUS PHENOMENA.

SOLAR HALOS.—At Camden on the 10th.

PARHELION.—At Liberty on the 27th.

EARTHQUAKE.—At Summerville on the 28th.

HAIL.—At Liberty on the 22d; at Blackville, Bowman, Kingstree on the 25th; at Winthrop College on the 26th.

LUNAR HALOS.—At Beaufort on the 5th, 6th; at Blackville on the 1st; at Camden on the 5th; at Charleston on the 1st, 5th, 6th; at Liberty on the 20th; at Little Mountain on the 14th, 15th; at Santuc on the 4th, 5th; at Winthrop College on the 6th, 17th.

THUNDERSTORMS.—At Newberry on the 11th; at Bowman on the 12th, 25th; at Blackville, Charleston, Cheraw, Pinopolis, Santuc, Society Hill, Spartanburg, Summerville, Trial on the 25th; at Winthrop College on the 26th.

HIGH WINDS.—At Beaufort on the 25th, 26th; at Bowman on the 24th, 26th; at Camden on the 11th, 18th, 25th; at Charleston on the 12th; at Cheraw, Columbia, Saluda, Trial on the 25th; at Liberty on the 22d, 25th, 26th, 27th; at Newberry on the 18th; at Winthrop College on the 26th.

DENSE FOGS.—At Beaufort, Spartanburg on the 22d; at Bowman, Trial on the 17th; at Camden, Clarks Hill on the 17th, 31st; at Cheraw on the 28th; at Columbia on the 17th, 30th, 31st; at Georgetown on the 15th, 16th; at Jacksonboro on the 1st; at Liberty on the 23d, 31st; at Santuc, Winthrop College on the 20th.

## ERRATA.

The following corrections should be made in the October, 1908, number of the Monthly Reports: On page 77, at Bowman, the monthly mean temperature 64.3 should be 63.3; at Greenville, the monthly mean temperature 58.2 should be 58.6.



## PRESSURE AND WIND TABLE FOR DECEMBER, 1908.

| Stations.             | Barometric pressure. |          |       |         |       | Wind.           |                 |                   |            |       |
|-----------------------|----------------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.                | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |                      |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.          | 30.14                | 30.52    | 9     | 29.77   | 12    | 4313            | 5.8             | 28                | DW.        | 25    |
| Charleston            | 30.14                | 30.46    | 3     | 29.73   | 12    | 7340            | 9.9             | 32                | SW.        | 12    |
| Charlotte, N. C.      | 30.13                | 30.50    | 3     | 29.73   | 13    | 4912            | 6.6             | 30                | SW.        | 18    |
| Columbia              | 30.13                | 30.55    | 3     | 29.74   | 12    | 5107            | 6.9             | 30                | W.         | 25    |
| Savannah, Ga.         | 30.15                | 30.44    | 3     | 29.78   | 12    | 5030            | 6.8             | 27                | DW.        | 7     |
| Wilmington, N. C.     | 30.13                | 30.55    | 3     | 29.68   | 12    | 5572            | 7.5             | 32                | SW.        | 11    |
| Averages or extremes. | 30.14                | 30.55    | 3     | 29.68   | 12    | 5444            | 7.2             | 32                | SW.        | *11   |

\*And 12.

## RIVER GAGE READINGS, DECEMBER, 1908.

| Stations.        | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|--------------|-------|----------|-------|---------|-------|
| Blairs           | 14           | 2.1   | 11.0     | 24    | 0.1     | 1     |
| Calhoun Falls.   | 15           | 3.8   | 9.0      | 23    | 2.8     | *5    |
| Camden           | 24           | 10.8  | 29.2     | 24    | 6.8     | 20    |
| Catawba          | 11           | 4.2   | 13.1     | 23    | 2.3     | 5     |
| Chappells        | 14           | 5.5   | 17.6     | 24    | 2.4     | 19    |
| Cheraw           | 27           | 8.2   | 31.8     | 24    | 3.0     | 2     |
| Columbia         | 15           | 3.5   | 15.9     | 24    | 1.6     | *7    |
| Effingham        | 12           | 4.1   | 4.6      | *28   | 3.5     | *7    |
| Ferguson         | 12           | 10.6  | 13.8     | 30    | 8.3     | 9     |
| Kingstree        | 12           | 2.7   | 3.3      | *26   | 2.0     | *5    |
| Mt. Holly, N. C. | 15           | 2.2   | 5.0      | 23    | 1.8     | *1    |
| Pelzer           | 7            | 3.6   | 4.4      | 22    | 2.6     | 1     |
| Rimint.          | 12           | 10.7  | 16.8     | 28    | 6.9     | 1     |
| Smiths Mills.    | 16           | 8.1   | 13.6     | 31    | 5.6     | 5     |

\*On other dates also.

## REMARKS BY OBSERVERS.

BEAUFORT: The mean maximum temperature was higher than has been previously recorded in any December since 1889, the nearest record being 63.1° in 1902. The weather was very pleasant, having been more like autumn than like winter.—Miss LILLIAN H. RICE.

BOWMAN: The month was unusually dry; streams and ponds remain at low stages, many of the ponds being quite dry.—B. O. EVANS.

CAMDEN: The weather was unusually warm.—J. B. MICKLE.

LIBERTY: There were frequent, well distributed rains, and the temperature was mild. There were a number of windy days, the 25th having been particularly windy.—JOHN T. BOGGS.

SANTUC: The temperature was mild and the precipitation ample, with about the average amount of cloudiness. There was a thunderstorm on the 25th during the progress of a snowstorm, and the accompanying winds blew down trees.—E. W. JETER.

SOCIETY HILL: Both the precipitation and the temperature were above the normal.—MAJ. J. J. LUCAS.

SUMMERVILLE: The average relative humidity was 76°. There was a slight earthquake on the 28th at 6:24 a. m.—Miss E. H. GADSDEN.

TRENTON: The precipitation since January 1st, 1908, is 8.17 inches less than the normal for the year.—C. A. LONG.

## CLIMATOLOGY OF YORKVILLE, S. C.

## Temperature.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l. |
|-------|------|------|------|------|------|-------|-------|------|-------|------|------|------|--------|
| 1888. |      |      |      |      |      |       |       |      |       |      |      |      |        |
| 1889. | 45   | 42   | 52   | 63   | 70   | 73    | 74    | 77   | 69    | 59   | 53   | 45   | 61.7   |
| 1890. | 52   | 53   | 53   | 63   | 70   | 79    | 78    | 74   | 71    | 59   | 56   | 44   | 62.7   |
| 1891. | 44   | 52   | 48   | 62   | 67   | 77    | 75    | 77   | 73    | 59   | 50   | 49   | 61.1   |
| 1892. | 39   | 47   | 53   | 58   | 69   | 77    | 80    | 79   | 74    | 62   | 50   | 46   | 61.2   |
| 1893. | 35   | 47   | 52   | 65   | 68   | 75    | 81    | 76   | 73    | 62   | 51   | 48   | 61.0   |
| 1894. | 47   | 47   | 58   | 61   | 70   | 77    | 77    | 76   | 74    | 62   | 51   | 40   | 61.7   |
| 1895. | 42   | 36   | 51   | 60   | 66   | 77    | 78    | 78   | 77    | 60   | 53   | 45   | 60.1   |
| 1896. | 43   | 47   | 51   | 66   | 77   | 76    | 79    | 80   | 74    | 61   | 58   | 44   | 63.1   |
| 1897. | 44   | 48   | 55   | 61   | 67   | 78    | 80    | 77   | 74    | 66   | 53   | 47   | 62.4   |
| 1898. | 47   | 44   | 59   | 58   | 75   | 80    | 80    | 78   | 74    | 63   | 50   | 45   | 62.7   |
| 1899. | 43   | 41   | 54   | 60   | 74   | 80    | 82    | 82   | 73    | 64   | 55   | 44   | 62.6   |
| 1900. | 45   | 43   | 51   | 62   | 72   | 78    | 82    | 85   | 79    | 68   | 56   | 46   | 63.9   |
| 1901. | 45   | 44   | 54   | 56   | 72   | 78    | 83    | 79   | 72    | 63   | 49   | 43   | 61.4   |
| 1902. | 41   | 40   | 54   | 61   | 76   | 79    | 82    | 79   | 72    | 65   | 60   | 45   | 62.8   |
| 1903. | 42   | 48   | 59   | 62   | 70   | 74    | 83    | 81   | 72    | 63   | 51   | 43   | 62.4   |
| 1904. | 40   | 44   | 54   | 58   | 71   | 77    | 79    | 77   | 74    | 62   | 52   | 43   | 60.9   |
| 1905. | 39   | 38   | 58   | 63   | 73   | 80    | 81    | 78   | 76    | 64   | 54   | 44   | 62.3   |
| 1906. | 46   | 46   | 49   | 66   | 70   | 78    | 79    | 81   | 77    | 60   | 55   | 47   | 62.8   |
| 1907. | 55   | 49   | 65   | 57   | 70   | 76    | 81    | 79   | 76    | 60   | 54   | 49   | 64.3   |
| 1908. | 42   | 41   | 60   | 66   |      |       |       |      |       |      |      |      |        |
| M'n's | 43.3 | 45.0 | 54.5 | 61.4 | 67.4 | 77.3  | 79.9  | 78.4 | 73.8  | 62.2 | 53.2 | 45.7 | 62.2   |

## Precipitation.

| Year. | Jan. | Feb. | Mar.  | Apr.  | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l. |
|-------|------|------|-------|-------|------|-------|-------|-------|-------|------|------|------|--------|
| 1888. |      |      |       |       |      |       |       |       |       |      |      |      |        |
| 1889. | 6.58 | 5.19 | 1.64  | 1.75  | 2.30 | 6.46  | 7.20  | 1.73  | 3.31  | 2.24 | 4.76 | 0.58 | 43.83  |
| 1890. | 1.66 | 4.34 | 3.79  | 1.87  | 5.78 | 2.76  | 8.38  | 2.65  | 6.15  | 6.34 | 0.26 | 3.35 | 47.33  |
| 1891. | 4.35 | 7.49 | 12.47 | 1.80  | 4.93 | 7.96  | 8.28  | 7.98  | 1.68  | 0.44 | 4.43 | 2.00 | 63.90  |
| 1892. | 9.00 |      |       | 4.53  | 3.10 | 7.03  | 7.27  | 3.01  |       |      | 3.88 | 2.94 |        |
| 1893. | 2.01 | 5.74 | 1.68  | 1.41  | 3.96 | 7.05  | 2.43  |       | 6.03  | 6.54 | 1.91 | 1.71 |        |
| 1894. | 2.84 | 3.03 | 1.18  | 1.62  | 3.24 | 3.44  | 3.59  | 4.57  | 4.49  | 8.11 | 2.13 | 5.45 | 43.69  |
| 1895. | 5.88 | 1.56 | 5.55  | 5.25  | 2.62 | 3.10  | 1.46  | 4.69  | 1.26  | 1.10 | 3.18 | 4.75 | 42.40  |
| 1896. | 2.64 | 5.42 | 1.55  | 2.22  | 1.82 | 5.05  | 8.13  | 2.47  | 5.73  | 1.58 | 4.45 | 2.01 | 43.07  |
| 1897. | 2.65 | 6.75 | 6.63  | 4.97  | 2.27 | 4.87  | 6.71  | 5.93  | 1.78  | 2.31 | 2.79 | 2.50 | 49.26  |
| 1898. | 2.82 | 1.07 | 5.06  | 3.85  | 1.32 | 3.54  | 6.18  | 9.03  | 4.04  | 5.94 | 2.58 | 2.09 | 48.12  |
| 1899. | 5.01 | 8.71 | 5.76  | 2.62  | 1.97 | 2.18  | 3.54  | 2.25  | 4.35  | 3.32 | 2.60 | 3.14 | 45.45  |
| 1900. | 2.29 | 5.58 | 5.37  | 7.46  | 4.99 | 7.66  | 2.34  | 1.63  | 7.70  | 2.92 | 3.53 | 4.56 | 50.03  |
| 1901. | 2.42 | 2.40 | 8.13  | 10.58 | 8.03 | 3.81  | 3.06  | 12.75 | 6.81  | 0.60 | 0.89 | 6.71 | 66.28  |
| 1902. | 3.50 | 7.60 | 4.12  | 1.75  | 1.80 | 5.33  | 2.34  | 2.69  | 5.23  | 5.36 | 5.99 | 4.44 | 50.15  |
| 1903. | 3.00 | 6.86 | 9.18  | 3.68  | 1.70 | 5.90  | 1.23  | 5.82  | 2.97  | 2.68 | 0.91 | 2.17 | 46.76  |
| 1904. | 1.91 | 3.58 | 2.58  | 1.31  | 2.62 | 5.87  | 5.65  | 11.30 | 0.46  | 1.06 | 4.39 | 3.30 | 44.03  |
| 1905. | 2.06 | 5.33 | 1.18  | 2.53  | 7.90 | 1.56  | 9.15  | 8.62  | 0.96  | 0.98 | 1.14 | 8.83 | 50.26  |
| 1906. | 7.78 | 1.71 | 5.97  | 2.25  | 1.82 | 5.42  | 6.34  | 11.66 | 5.39  | 3.14 | 0.96 | 4.06 | 56.40  |
| 1907. | T.   | 3.52 | 1.99  | 3.62  | 6.12 | 5.46  | 3.51  | 7.13  | 5.78  | 0.70 | 5.52 | 8.70 | 52.05  |
| 1908. | 6.45 | 5.87 | 4.41  | 2.42  |      |       |       |       |       |      |      |      |        |
| M'n's | 3.74 | 4.83 | 4.64  | 3.34  | 3.60 | 4.97  | 5.20  | 5.82  | 4.15  | 3.37 | 2.93 | 3.85 | 50.31  |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest monthly mean. | Year. | Lowest monthly mean. | Year. | Greatest monthly. | Year. | Least monthly. | Year. |
| January   | 52                    | 1890  | 37                   | 1887  | 9.00              | 1892  | T.             | 1907  |
| February  | 53                    | 1890  | 36                   | 1895  | 8.71              | 1899  | 1.07           | 1898  |
| March     | 65                    | 1907  | 48                   | 1891  | 12.47             | 1891  | *1.18          | 1894  |
| April     | 66                    | *1896 | 57                   | 1907  | 10.58             | 1901  | 1.31           | 1904  |
| May       | 77                    | 1896  | 66                   | 1895  | 8.03              | 1901  | 1.32           | 1898  |
| June      | 80                    | *1898 | 73                   | 1889  | 7.96              | 1891  | 1.56           | 1905  |
| July      | 83                    | *1901 | 75                   | 1891  | 9.15              | 1905  | 1.23           | 1903  |
| August    | 85                    | 1900  | 74                   | *1889 | 12.75             | 1901  | 1.63           | 1900  |
| September | 79                    | 1900  | 69                   | 1888  | 9.06              | 1888  | 0.46           | 1904  |
| October   | 68                    | 1900  | 59                   | *1888 | 8.11              | 1894  | 0.44           | 1891  |
| November  | 60                    | 1902  | 49                   | 1901  | 5.99              | 1902  | 0.26           | 1890  |
| December  | 57                    | 1889  | 43                   | *1901 | 8.83              | 1905  | 0.58           | 1889  |

\*Other years also.

## COMPARATIVE DECEMBER DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |                  |                |                | Average number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|------------------|----------------|----------------|----------------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average.       | Greatest monthly. |                  | Least monthly. |                |                            |                            |
|           |              |               |               |          |          |                | Amount.           | Place.           | Amount.        | Place.         |                            |                            |
| 1894..... | 48.1         | 56.8          | 39.7          | 85       | —1       | 2.56           | 6.37              | Central.         | 0.43           | Hardeeville.   | 7                          | nw.                        |
| 1895..... | 46.1         | 57.1          | 35.5          | 80       | 15       | 3.04           | 6.55              | Holland.         | 1.25           | Central.       | 6                          | nw.                        |
| 1896..... | 44.0         | 54.5          | 35.5          | 83       | 8        | 3.55           | 6.46              | St. George.      | 0.55           | Walhalla.      | 7                          | ne.                        |
| 1897..... | 47.6         | 57.6          | 37.7          | 82       | 21       | 2.40           | 4.11              | Walhalla.        | 1.10           | Georgetown.    | 8                          | ne.                        |
| 1898..... | 49.5         | 54.8          | 37.0          | 77       | 9        | 2.84           | 6.52              | Gillisonville.   | 1.02           | Cheraw.        | 8                          | nw.                        |
| 1899..... | 44.6         | 54.9          | 34.2          | 79       | 11       | 2.33           | 4.05              | Batesburg.       | 0.85           | Charleston.    | 7                          | nw.                        |
| 1900..... | 45.5         | 55.6          | 35.4          | 79       | 18       | 5.64           | 8.15              | Effingham.       | 3.65           | Batesburg.     | 8                          | n.                         |
| 1901..... | 44.0         | 54.4          | 33.5          | 80       | 2        | 5.01           | 10.23             | Spartanburg.     | 1.28           | Gillisonville. | 11                         | n.                         |
| 1902..... | 46.8         | 56.6          | 37.1          | 85       | 10       | 4.26           | 6.80              | Conway.          | 1.92           | Bennettsville. | 7                          | nw.                        |
| 1903..... | 41.0         | 52.5          | 29.4          | 72       | 10       | 1.95           | 3.84              | Smiths Mills.    | 0.57           | Barksdale.     | 0                          | w.                         |
| 1904..... | 45.5         | 54.9          | 36.1          | 78       | 16       | 2.97           | 4.90              | Greenville.      | 1.08           | Charleston.    | 9                          | w.                         |
| 1905..... | 45.2         | 54.7          | 35.8          | 77       | 16       | 7.25           | 11.18             | Chappells.       | 3.18           | Kingstree.     | 10                         | ne.                        |
| 1906..... | 48.0         | 58.1          | 38.0          | 89       | 11       | 3.25           | 7.71              | Walhalla.        | 1.18           | Winnsboro.     | 7                          | sw.                        |
| 1907..... | 46.2         | 56.2          | 36.2          | 75       | 12       | 5.81           | 8.70              | Yorkville.       | 3.11           | Smiths Mills.  | 10                         | w.                         |
| 1908..... | 50.6         | 60.8          | 40.5          | 83       | 23       | 2.84           | 5.90              | Clemson College. | 0.94           | Charleston.    | 7                          | w.                         |



CLIMATOLOGICAL DATA FOR THE MONTH OF DECEMBER, 1908.

| STATIONS                    | Counties     | Elevation, feet | Length of record, years | Temperature—in degrees Fahrenheit |                           |         |        |               | Precipitation—in inches |                           |                      |                        |                   | Sky              |                           |                   |                      |                       | Observer |
|-----------------------------|--------------|-----------------|-------------------------|-----------------------------------|---------------------------|---------|--------|---------------|-------------------------|---------------------------|----------------------|------------------------|-------------------|------------------|---------------------------|-------------------|----------------------|-----------------------|----------|
|                             |              |                 |                         | Mean                              | Departure from the normal | Highest | Lowest | Extreme range | Total                   | Departure from the normal | Grainest in 24 hours | Total snow in 24 hours | Number rainy days | Number cool days | Number partly cloudy days | Number clear days |                      |                       |          |
| Aiken                       | Aiken        | 898             | 24                      | 52.2                              | + 8.1                     | 79      | 1      | 34            | 1.69                    | - 0.11                    | 1.89                 | 0                      | 4                 | 18               | 10                        | 3                 | W                    | C. F. McDaniel, M. D. |          |
| Allendale                   | Barnwell     | 186             | 20                      | 51.0                              | + 6.2                     | 80      | 1      | 30            | 1.88                    | - 0.21                    | 1.40                 | 0                      | 4                 | 11               | 10                        | 7                 | W                    | A. R. Hoot            |          |
| Anderson                    | Anderson     | 704             | 2                       | 47.8                              | + 4.0                     | 71      | 17     | 27            | 1.67                    | - 0.07                    | 1.67                 | 0                      | 10                | 10               | 0                         | 12                | W                    | H. H. Russell         |          |
| Augusta, Ga.                | Richmond     | 134             | 37                      | 51.6                              | + 4.6                     | 76      | 4      | 41            | 2.33                    | - 1.13                    | 1.29                 | 0                      | 7                 | 8                | 11                        | 12                | W                    | Weather Bureau        |          |
| Barksdale                   | Laurens      | 685             |                         |                                   |                           |         |        |               |                         |                           |                      |                        |                   |                  |                           |                   |                      | J. I. Garrett         |          |
| Batesburg                   | Lexington    | 650             | 20                      | 48.3                              | + 1.8                     | 72      | 1      | 32            | 2.76                    | - 1.02                    | 1.04                 | 0                      | 4                 | 14               | 10                        | 7                 | W                    | E. J. Hite            |          |
| Beaufort                    | Beaufort     | 20              | 22                      | 57.4                              | + 5.6                     | 80      | 18     | 49            | 0.63                    | 0.00                      | 0.63                 | 0                      | 5                 | 12               | 13                        | 5                 | W                    | Miss I. G. Rice       |          |
| Bennettsville               | Marlboro     | 151             | 7                       |                                   |                           |         |        |               |                         |                           |                      |                        |                   |                  |                           |                   |                      | C. S. McCall          |          |
| Blackville                  | Barnwell     | 230             | 20                      | 52.3                              | + 5.9                     | 76      | 15     | 29            | 2.21                    | - 1.02                    | 0.83                 | 0                      | 6                 | 12               | 10                        | 9                 | W                    | Miss M. E. Lange      |          |
| Blair                       | Fairfield    | 243             | 3                       |                                   |                           |         |        |               |                         |                           |                      |                        |                   |                  |                           |                   |                      | T. S. McShan          |          |
| Bowman                      | Orangeburg   | 100             | 7                       | 50.8                              |                           | 82      | 1      | 23            | 1.46                    | - 0.62                    | 0.62                 | 0                      | 4                 | 24               | 5                         | 3                 | W                    | B. O. Evans           |          |
| Calhoun Falls               | Abbeville    | 508             | 15                      |                                   |                           |         |        |               | 3.08                    | - 1.08                    | 0.06                 | 0                      | 6                 | 20               | 0                         | 11                | W                    | P. J. Frazier         |          |
| Camden (1)                  | Kershaw      | 2               | 2                       | 49.8                              |                           | 75      | 1      | 28            | 2.89                    | - 1.57                    | 0.32                 | 0                      | 8                 | 18               | 7                         | 9                 | W                    | J. B. Mickle          |          |
| Camden (2)                  | Kershaw      | 222             | 42                      |                                   |                           |         |        |               | 3.52                    | + 0.16                    | 1.29                 | 0                      | 5                 | 17               | 6                         | 6                 | W                    | W. C. Brown           |          |
| Catawba                     | York         |                 | 3                       |                                   |                           |         |        |               | 4.30                    | - 1.44                    | 0.77                 | 0                      | 7                 | 9                | 17                        | 8                 | W                    | Jas. C. Faris         |          |
| Chapin                      | Newberry     | 402             | 3                       |                                   |                           |         |        |               | 3.50                    | - 1.40                    | 0.10                 | 0                      | 6                 | 9                | 15                        | 7                 | W                    | W. R. Zimmerman       |          |
| Charleston                  | Charleston   | 48              | 31                      | 55.8                              | + 4.5                     | 78      | 1      | 38            | 0.04                    | - 2.21                    | 0.50                 | 0                      | 7                 | 9                | 11                        | 11                | W                    | Weather Bureau        |          |
| Charlotte, N. C.            | Mecklenburg  | 808             | 30                      | 45.7                              | + 4.0                     | 74      | 18     | 26            | 4.06                    | - 0.20                    | 2.41                 | 0.1                    | 9                 | 0                | 9                         | 11                | W                    | Weather Bureau        |          |
| Cheraw (1)                  | Chesterfield | 144             | 20                      | 47.8                              | + 4.5                     | 77      | 1      | 26            | 3.35                    | - 0.12                    | 1.23                 | 0                      | 7                 | 8                | 3                         | 20                | W                    | W. R. Godfrey         |          |
| Cheraw (2)                  | Chesterfield | 87              | 15                      |                                   |                           |         |        |               | 3.49                    | - 0.15                    | 1.25                 | 0                      | 9                 | 10               | 12                        | 9                 | W                    | Jno. H. Powe          |          |
| Clarks Hill                 | Edgefield    | 500             | 0                       | 49.4                              |                           | 71      | 1      | 27            | 2.66                    | - 1.27                    | 0.5                  | 0                      | 5                 | 18               | 2                         | 11                | W                    | Wm. S. Middleton      |          |
| Clemson College             | Oconee       | 850             | 17                      | 47.0                              | + 4.0                     | 72      | *17    | 27            | 5.00                    | - 1.17                    | 2.17                 | 0                      | 7                 | 17               | 4                         | 10                | W                    | Jno. N. Hook          |          |
| Columbia                    | Richland     | 351             | 21                      | 50.6                              | + 3.4                     | 77      | 1      | 29            | 2.40                    | - 0.50                    | 1.71                 | 0                      | 8                 | 5                | 10                        | 10                | W                    | Section Center        |          |
| Conway                      | Horry        | 25              | 10                      | 51.4                              |                           | 80      | 1      | 24            | 2.89                    | - 0.45                    | 0.83                 | 0                      | 6                 | 8                | 1                         | 22                | W                    | P. C. Quattlebaum     |          |
| Darlington                  | Darlington   | 175             | 13                      | 49.2                              |                           | 79      | 1      | 25            | 2.58                    | - 0.42                    | 0.91                 | 0                      | 8                 |                  |                           |                   | W                    | D. C. McCall          |          |
| Dillon                      | Marion       | 100             | 4                       | 50.1                              |                           | 79      | 1      | 26            | 2.99                    | - 0.72                    | 0                    | 10                     |                   |                  |                           |                   | W                    | A. E. Rowell          |          |
| Edgingham                   | Florence     | 100             | 10                      |                                   |                           |         |        |               | 2.05                    | - 0.69                    | 0.70                 | 0                      | 7                 | 22               | 0                         | 9                 | W                    | H. B. McCall          |          |
| Ferguson                    | Berkeley     | 51              | 1                       |                                   |                           |         |        |               | 1.90                    | - 1.40                    | 0                    | 2                      | 15                | 3                | 13                        | W                 | D. B. Gilliland, jr. |                       |          |
| Florence                    | Florence     | 136             | 20                      | 50.7                              | + 6.7                     | 79      | 1      | 27            | 1.30                    | - 1.05                    | 0.06                 | 0                      | 3                 | 15               | 4                         | 12                | W                    | H. K. Gilbert         |          |
| Georgetown                  | Georgetown   | 12              | 15                      | 53.3                              | + 4.6                     | 80      | 1      | 41            | 1.57                    | - 2.51                    | 0.60                 | 0                      | 7                 | 18               | 9                         | 4                 | W                    | Wm. Alden James       |          |
| Greenville                  | Greenville   | 980             | 10                      | 47.2                              | + 7.3                     | 75      | 17     | 20            | 5.18                    | + 0.60                    | 2.18                 | 0                      | 10                | 13               | 4                         | 14                | W                    | Mrs. S. A. Crittenden |          |
| Greenwood                   | Greenwood    | 671             | 20                      | 47.6                              | + 5.4                     | 74      | 2      | 29            | 4.85                    | - 0.28                    | 2.26                 | 0                      | 5                 | 14               | 9                         | 17                | W                    | M. M. Calhoun         |          |
| Heath Springs               | Lancaster    | 568             | 7                       |                                   |                           |         |        |               |                         |                           |                      |                        |                   |                  |                           |                   |                      | J. A. Warner          |          |
| Jacksonboro                 | Colleton     | 13              | 0                       | 51.9                              |                           | 77      | *16    | 28            | 1.47                    | - 0.80                    | 0                    | 0                      | 12                | 16               | 3                         |                   | W                    | W. E. Haskell, jr.    |          |
| Kingstree (1)               | Williamsburg | 54              | 20                      | 54.6                              | + 8.2                     | 77      | 1      | 20            | 2.25                    | - 1.20                    | 0.60                 | 0                      | 7                 | 20               | 1                         | 10                | W                    | A. O. Scott           |          |
| Kingstree (2)               | Williamsburg | 50              | 14                      |                                   |                           |         |        |               | 2.23                    | - 1.36                    | 0.60                 | 0                      | 7                 | 21               | 2                         | 8                 | W                    | A. O. Matthews        |          |
| Liberty                     | Pickens      | 900             | 14                      | 48.6                              | + 5.5                     | 74      | *17    | 25            | 4.60                    | - 0.68                    | 1.55                 | T                      | 10                | 15               | 8                         | 8                 | W                    | Jno. T. Boggs         |          |
| Little Mountain             | Newberry     | 630             | 15                      | 49.0                              | + 3.2                     | 75      | 17     | 28            | 2.65                    | - 0.84                    | 1.77                 | 0                      | 5                 | 21               | 4                         | 6                 | W                    | John M. Sease, M. D.  |          |
| Newberry                    | Newberry     | 502             | 4                       | 48.6                              | + 3.7                     | 74      | 17     | 28            | 0                       | 0.61                      | 2.49                 | 0                      | 8                 | 10               | 11                        | 10                | W                    | W. G. Peterson        |          |
| Pelzer                      | Anderson     | 873             | 3                       |                                   |                           |         |        |               | 4.50                    | - 1.10                    | 0                    | 7                      | 10                | 0                | 15                        | W                 | John M. Ward         |                       |          |
| Pinopolis                   | Berkeley     | 54              | 15                      | 52.8                              | + 5.2                     | 74      | 1      | 32            | 2.59                    | - 0.78                    | 0                    | 7                      | 21                | 2                | 8                         | W                 | Miss E. P. Ravenel   |                       |          |
| St. George                  | Dorchester   | 109             | 20                      | 56.4                              | + 10.0                    | 78      | *1     | 34            | 1.50                    | - 1.02                    | 0.90                 | 0                      | 3                 | 26               | 0                         | 5                 | W                    | G. T. Lewis           |          |
| St. Matthews                | Calhoun      | 260             | 20                      | 49.6                              | + 3.6                     | 76      | 1      | 29            | 1.03                    | - 2.52                    | 0.63                 | 0                      | 3                 | 25               | 0                         | 6                 | W                    | J. S. Wannamaker      |          |
| Saluda                      | Saluda       | 530             | 0                       | 47.4                              |                           | 75      | 1      | 28            | 3.02                    | - 1.45                    | 0                    | 0                      | 18                | 5                | 8                         | W                 | Alvin Etheridge      |                       |          |
| Santee                      | Union        | 512             | 14                      | 47.6                              | + 4.7                     | 73      | 17     | 26            | 4.20                    | - 0.11                    | 2.62                 | T                      | 11                | 9                | 11                        | 11                | W                    | E. W. Jeter           |          |
| Savannah, Ga.               | Chatham      | 71              | 31                      | 56.2                              | + 4.9                     | 79      | 1      | 35            | 1.09                    | - 2.01                    | 0.28                 | 0                      | 7                 | 19               | 12                        | 9                 | W                    | Weather Bureau        |          |
| Smiths Mills                | Williamsburg | 62              | 13                      |                                   |                           |         |        |               | 2.30                    | - 1.74                    | 0.81                 | 0                      | 7                 | 17               | 6                         | 14                | W                    | W. G. Walker          |          |
| Society Hill                | Darlington   | 162             | 17                      | 48.3                              | + 3.2                     | 70      | 1      | 27            | 2.8                     | - 0.31                    | 0.96                 | 0                      | 6                 | 11               | 6                         | 14                | W                    | J. J. Lucas           |          |
| Spartanburg                 | Spartanburg  | 875             | 17                      | 45.2                              | + 3.0                     | 74      | 17     | 25            | 4.1                     | + 0.88                    | 1.65                 | T                      | 9                 | 11               | 0                         | 20                | W                    | F. P. Robinson        |          |
| Stateburg                   | Sumter       | 590             | 31                      |                                   |                           |         |        |               |                         |                           |                      |                        |                   |                  |                           |                   |                      | W. W. Anderson, M. D. |          |
| Summerville                 | Dorchester   | 75              | 11                      | 51.6                              | + 5.8                     | 80      | 1      | 27            | 1.58                    | - 1.04                    | 0.52                 | 0                      | 9                 | 4                | 22                        | 5                 | W                    | Miss E. H. Gadsden    |          |
| Trenton                     | Edgefield    | 620             | 15                      | 50.2                              | + 3.1                     | 75      | 1      | 24            | 2.53                    | - 1.70                    | 1.30                 | 0                      | 4                 | 10               | 10                        | 5                 | W                    | C. A. Long            |          |
| Triola                      | Berkeley     | 85              | 22                      | 51.7                              | + 3.8                     | 80      | 1      | 29            | 2.05                    | - 1.07                    | 0.68                 | 0                      | 7                 | 4                | 20                        | 7                 | W                    | Etsell Gaillard       |          |
| Walterboro                  | Colleton     | 69              | 5                       | 55.2                              |                           | 83      | 1      | 27            | 1.87                    | - 0.02                    | 0                    | 0                      | 9                 | 17               | 0                         | 5                 | W                    | J. A. Westerberg      |          |
| Wilmington, N. C.           | New Hanover  | 52              | 30                      | 51.0                              | + 4.4                     | 77      | 1      | 30            | 2.22                    | - 0.90                    | 0.68                 | 0                      | 11                | 11               | 14                        | 6                 | W                    | Weather Bureau        |          |
| Winnboro                    | Fairfield    | 545             | 13                      | 41.3                              | + 3.0                     | 72      | 1      | 28            | 3.00                    | - 0.20                    | 1.50                 | 0                      | 3                 | 19               | 10                        | 2                 | W                    | John W. Seigler       |          |
| Winthrop College            | York         | 060             | 0                       | 47.5                              |                           | 74      | 18     | 27            | 3                       | 3                         | 2.65                 | 0                      | 9                 | 18               | 4                         | 0                 | W                    | E. R. Rivers          |          |
| Yemassee                    | Beaufort     | 23              | 13                      | 52.0                              | + 6.5                     | 77      | 1      | 28            | 1.45                    | - 2.10                    | 0.75                 | 0                      | 6                 | 17               | 3                         | 11                | W                    | J. G. Hutson          |          |
| Means, extremes, and dates. |              |                 |                         | 50.6                              | ± 0                       | 83      | 1      | 23            | 9                       | 44                        | - 2.84               | - 0.94                 | 2.49              | T                | 7                         | 13                | 9                    | 9                     | W        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed non-registering thermometer not standard. \* On other dates also. a, Indicates 1 day missing; b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING DECEMBER, 1908.

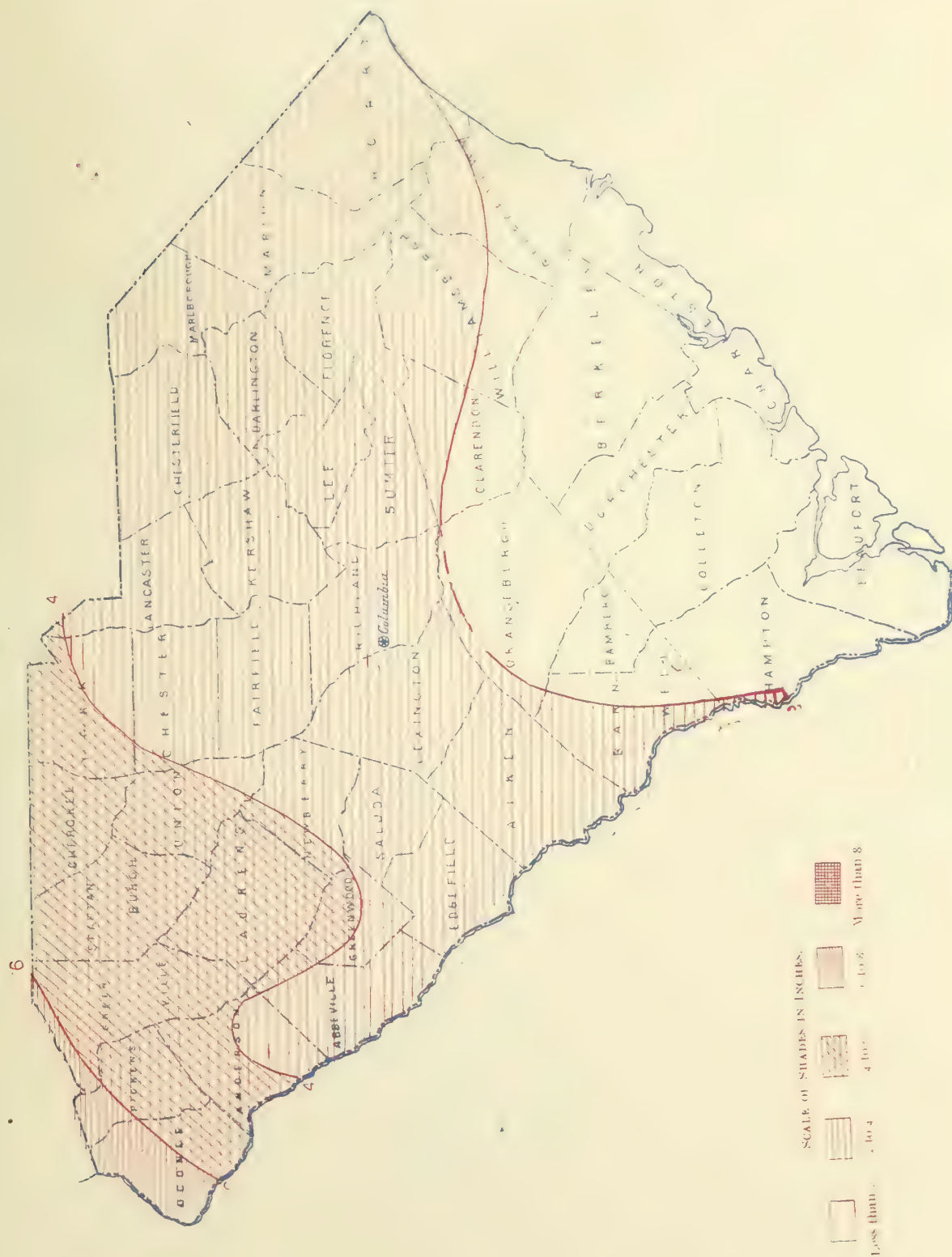
[illegible]

\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs.

# The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR DECEMBER, 1908



## DAILY PRECIPITATION FOR SOUTH CAROLINA, DECEMBER, 1908.

| STATIONS.         | DAY OF MONTH. |     |     |     |     |      |      |     |   |    |      |      |     |    |    |    |    |    |    |     |     |      |      |     |     |     |     |    |    |     |      | TOTAL. |      |
|-------------------|---------------|-----|-----|-----|-----|------|------|-----|---|----|------|------|-----|----|----|----|----|----|----|-----|-----|------|------|-----|-----|-----|-----|----|----|-----|------|--------|------|
|                   | 1             | 2   | 3   | 4   | 5   | 6    | 7    | 8   | 9 | 10 | 11   | 12   | 13  | 14 | 15 | 16 | 17 | 18 | 19 | 20  | 21  | 22   | 23   | 24  | 25  | 26  | 27  | 28 | 29 | 30  | 31   |        |      |
| Aiken             | .50           |     |     |     |     |      |      |     |   |    | 1.10 |      |     |    |    |    |    |    |    |     |     | 1.50 |      |     |     |     |     |    |    |     |      | 3.10   |      |
| Allendale*        | .48           |     |     |     | .10 |      |      |     |   |    |      | 1.00 |     |    |    |    |    |    |    |     |     | .30  |      |     |     |     |     |    |    |     |      | 1.88   |      |
| Anderson          | .42           | .02 |     |     |     | .14  | .60  |     |   |    |      | .50  |     |    |    |    |    |    |    | .07 |     | 1.50 | .67  |     |     |     |     |    |    |     |      | 3.98   |      |
| Augusta, Ga.      | T.            | .38 |     |     |     |      | .22  |     |   |    | .28  | .14  |     |    |    |    |    |    |    |     |     | .50  | .73  |     |     | .02 |     |    |    | .35 | .06  | 2.33   |      |
| Barksdale         |               |     |     |     |     |      |      |     |   |    |      |      |     |    |    |    |    |    |    |     |     |      |      |     |     |     |     |    |    |     |      |        |      |
| Batesburg*        | T.            |     |     |     |     |      | .06  |     |   |    |      | 1.04 |     |    |    |    |    |    |    |     |     | 1.02 | .64  |     |     |     |     |    |    |     |      | 2.76   |      |
| Beaufort          |               |     | .30 |     |     |      |      |     |   |    |      | .90  |     |    |    |    |    |    |    |     | T.  | .30  | .44  |     |     |     |     |    |    | .07 |      | 2.01   |      |
| Bennettsville     |               |     |     |     |     |      |      |     |   |    |      |      |     |    |    |    |    |    |    |     |     |      |      |     |     |     |     |    |    |     |      |        |      |
| Blackville*       | .20           |     | T.  |     |     | T.   |      |     |   |    | .70  |      |     |    |    | T. |    |    |    |     |     | .80  | .43  |     |     | .01 |     |    |    |     |      | 2.21   |      |
| Blairs*           |               | .30 |     |     |     |      | .24  |     |   |    |      | .10  |     |    |    |    |    |    |    |     |     | 1.50 | .84  |     |     |     |     |    |    | .07 |      | 2.98   |      |
| Bowman            |               | .30 |     | .26 |     |      |      |     |   |    | T.   | .28  |     |    |    |    |    |    |    |     |     |      | .62  |     |     |     |     |    |    |     |      | 1.46   |      |
| Calhoun Falls*    |               | .18 |     |     |     |      |      |     |   |    | .30  |      |     |    |    |    |    |    |    | .18 |     | .80  |      | .96 |     |     |     |    |    | .48 |      | 3.08   |      |
| Camden (1)        | .41           |     |     |     |     | T.   | .06  |     |   |    |      | .58  |     |    |    |    |    |    |    | .01 |     | .08  | .57  |     | .02 |     |     |    |    | .16 |      | 2.89   |      |
| Camden (2)*       |               | .34 |     |     |     |      |      | .16 |   |    |      | 1.20 |     |    |    |    |    |    |    |     |     | 1.08 | .74  |     |     |     |     |    |    |     |      | 3.52   |      |
| Catawba*          |               | .52 |     |     |     |      | .26  |     |   |    |      | .50  |     |    |    |    |    |    |    |     | 1.0 | 1.44 | 1.28 |     |     |     |     |    |    |     |      | 2.0    | 4.30 |
| Chappells*        | .30           |     |     |     |     |      | .38  | .16 |   |    |      | .58  |     |    |    |    |    |    |    |     |     | 1.40 | .68  |     |     |     |     |    |    |     |      | 3.50   |      |
| Charleston        | T.            |     | .13 |     |     | T.   |      |     |   |    | .02  | .48  |     |    |    |    |    |    |    |     | T.  | .06  | .19  |     |     | .05 |     |    |    | .01 | T.   | 0.94   |      |
| Charlotte, N. C.  | .34           |     | T.  |     | .02 | .29  |      |     |   |    | .38  |      |     |    |    |    |    |    |    | .04 | T.  | .31  | 2.27 |     | T.  | T.  |     | T. |    | .40 | .01  | 4.06   |      |
| Cheraw (1)*       |               | .31 |     |     | .10 |      | T.   |     |   |    |      | .83  |     |    |    |    |    |    |    |     | .12 | 1.23 | .72  |     |     | T.  |     |    |    |     |      | .04    | 3.35 |
| Cheraw (2)*       | .33           |     |     | .09 |     |      | .01  |     |   |    |      | .85  |     |    |    |    |    |    |    |     | .12 | 1.25 | .75  |     |     |     |     |    |    |     |      | .04    | 3.49 |
| Clarks Hill       | .15           |     |     |     | .27 | T.   |      |     |   |    | .82  |      |     |    |    |    |    |    |    |     | .12 | 1.27 |      |     |     |     |     |    |    |     |      | .04    | 3.49 |
| Clemson College   | .37           |     |     |     | .17 |      |      |     |   |    | .42  |      |     |    |    |    |    |    |    |     | .15 | 2.17 |      |     |     |     |     |    |    |     |      | T.     | 2.66 |
| Columbia          | .10           | .05 |     |     |     | T.   | .09  |     |   |    | .19  | .19  |     |    |    |    |    |    |    | .02 |     | .65  | 1.11 |     |     |     |     |    |    | .48 | .27  | 5.90   |      |
| Conway*           | .53           |     |     | .53 |     |      |      |     |   |    |      | .83  |     |    |    |    |    |    |    |     |     | 1.0  | .60  |     | T.  | T.  |     |    |    |     | .30  | 2.89   |      |
| Darlington        | .17           |     | T.  | .16 |     |      |      | .06 |   |    |      | .91  |     |    |    |    |    |    |    |     |     | .74  | .34  |     | .17 |     |     |    |    |     | .03  | 2.58   |      |
| Dillon            | .54           |     | .44 | .01 | T.  | .02  |      |     |   |    |      | .89  |     |    |    |    |    |    |    |     |     | .01  | .72  |     | .16 |     |     |    |    |     | .05  | 1.5    | 2.90 |
| Efingham*         |               |     | .10 | .15 |     |      |      |     |   |    |      | .50  |     |    |    |    |    |    |    |     |     | .70  | .40  |     | .20 |     |     |    |    |     | .60  | 2.65   |      |
| Ferguson*         |               | .50 |     |     |     |      |      |     |   |    |      |      |     |    |    |    |    |    |    |     |     |      |      |     |     |     |     |    |    |     |      | 1.90   |      |
| Florence*         |               | .96 |     | T.  |     |      |      | .10 |   |    |      |      |     |    |    |    |    |    |    |     |     |      |      |     |     |     |     |    |    |     |      | 1.36   |      |
| Georgetown        |               | .08 |     | .09 |     |      |      |     |   |    | .50  |      |     |    |    |    |    |    |    |     |     | .08  | .60  |     | .12 |     |     |    |    |     | .30  | 1.97   |      |
| Greenville*       | T.            | .33 |     |     | T.  |      | 1.50 |     |   |    |      | .25  |     |    |    |    |    |    |    | .07 | .02 | .03  | 2.18 | .05 |     |     |     | T. |    | .10 | 5.18 |        |      |
| Greenwood*        |               | .11 |     |     | .61 |      |      |     |   |    |      | .89  |     |    |    |    |    |    |    |     |     | 2.26 | .98  |     |     |     |     |    |    |     |      | 4.85   |      |
| Heath Springs     |               |     |     |     |     |      |      |     |   |    |      |      |     |    |    |    |    |    |    |     |     |      |      |     |     |     |     |    |    |     |      |        |      |
| Jacksonboro       |               |     | .36 |     | .06 |      |      |     |   |    |      | .80  |     |    |    |    |    |    |    |     |     | .20  | .50  |     |     |     |     |    |    |     | .05  | 1.97   |      |
| Kingsree (1)*     |               | .50 |     | .15 |     |      |      |     |   |    |      | .60  |     |    |    |    |    |    |    |     |     | .10  | .50  |     | .20 |     |     |    |    |     | .20  | 2.25   |      |
| Kingsree (2)*     | T.            | .43 |     | .15 |     |      |      |     |   |    |      | .60  |     |    |    |    |    |    |    |     |     | .10  | .50  |     | .20 |     |     |    |    |     | .20  | 2.23   |      |
| Liberty           |               |     |     |     |     |      |      |     |   |    |      |      |     |    |    |    |    |    |    |     |     |      |      |     |     |     |     |    |    |     |      |        |      |
| Little Mountain   | .50           |     | .10 |     | .30 | .90  |      |     |   |    | .30  | .20  |     |    |    |    |    |    |    | .10 |     | .15  | 1.55 |     | T.  |     | 1   |    |    | .50 |      | 4.60   |      |
| Newberry          | .27           |     |     |     |     | .35  |      |     |   |    |      |      |     |    |    |    |    |    |    |     |     | .23  | 1.77 | .03 |     |     |     |    |    |     |      | 2.65   |      |
| Pelzer*           | .28           |     |     |     | .21 | .09  |      |     |   |    | .54  |      |     |    |    |    |    |    |    |     |     | 1.45 | .84  |     | .02 |     |     |    |    |     | .06  | 3.49   |      |
| Pinopolis         | .02           | .80 |     |     |     | 1.10 |      |     |   |    |      | .48  |     |    |    |    |    |    |    | T.  |     |      |      | .60 |     |     |     |    |    |     |      | 4.50   |      |
| St. George*       | .78           | .70 |     |     |     |      |      |     |   |    |      | .90  |     |    |    |    |    |    |    |     |     | .50  | .20  | .10 | .10 |     |     |    |    | .21 | 1.50 |        |      |
| St. Matthews*     | .50           |     |     |     |     |      |      |     |   |    |      | .25  |     |    |    |    |    |    |    |     |     | .63  |      |     | .15 |     |     |    |    |     |      | 1.03   |      |
| Saluda            | .04           | .15 |     |     | T.  | .29  |      |     |   |    |      | 1.08 |     |    |    |    |    |    |    | .01 |     | 1.45 |      |     |     |     |     |    |    |     |      | 3.02   |      |
| Santee            | .15           | .20 |     |     | T.  | .35  |      |     |   |    |      | .46  |     |    |    |    |    |    |    | .07 |     | .06  | 2.62 |     | .10 |     | .02 |    |    |     | .10  | 4.20   |      |
| Savannah, Ga.     |               |     | .28 |     |     | .03  |      |     |   |    | T.   | .28  |     |    |    |    |    |    |    | .21 | .04 | .24  |      |     |     |     |     |    |    |     |      | .01    | 1.09 |
| Smiths Mills*     | .12           | .33 |     | .67 |     |      |      |     |   |    |      |      | .18 |    |    |    |    |    |    |     |     | .81  | .18  |     | .01 |     |     |    |    |     |      | .230   |      |
| Society Hill      | .34           |     |     |     |     |      |      |     |   |    | .83  |      |     |    |    |    |    |    |    |     |     | .96  | .61  |     |     | .13 |     |    |    |     |      | 2.91   |      |
| Spartanburg*      | T.            | .25 |     |     |     | 1.09 |      |     |   |    |      | .28  |     |    |    |    |    |    |    | .04 |     | 1.65 | 1.08 |     |     |     |     |    |    | .02 | .05  | .45    | 4.99 |
| Stateburg         |               |     |     |     |     |      |      |     |   |    |      |      |     |    |    |    |    |    |    |     |     |      |      |     |     |     |     |    |    |     |      |        |      |
| Summerville       | .21           | .32 | .16 |     | T.  |      |      |     |   |    |      | .52  |     |    |    |    |    |    |    |     |     | .12  | .38  | .03 | T.  | .04 |     |    |    |     | .20  | 1.98   |      |
| Trenton           | .24           |     |     |     |     | .39  |      |     |   |    |      | .60  |     |    |    |    |    |    |    |     |     | T.   | 1.30 |     |     |     |     |    |    |     |      |        | 2.53 |
| Triana            | .62           |     | .10 |     |     |      |      |     |   |    |      | .68  |     |    |    |    |    |    |    |     |     | .20  | .32  |     | .04 |     |     |    |    |     | .09  | 2.05   |      |
| Walterboro        | .02           | .19 |     | .15 | .05 |      | T.   |     |   |    |      | .62  |     |    |    |    |    |    |    |     |     | .10  | .53  |     | .18 |     |     |    |    |     | .03  | 1.87   |      |
| Wilmington, N. C. | .17           |     | .57 | .01 | T.  | .03  |      |     |   |    |      | .66  |     |    |    |    |    |    |    |     |     | T.   | .52  |     |     | .12 | .02 |    |    |     | .09  | .01    | 2.22 |
| Winnsboro         |               |     |     |     | T.  | T.   |      |     |   |    | 1.00 |      |     |    |    |    |    |    |    |     |     | .50  | 1.50 |     | T.  |     |     |    |    |     |      | 3.00   |      |
| Winthrop College  | .19           | .27 |     |     | T.  |      | .21  |     |   |    | T.   | .34  |     |    |    |    |    |    |    | .08 |     | .03  | 2.65 | .05 |     | T.  | T.  |    |    |     | .11  | 3.93   |      |
| Yemassee*         |               |     |     | .16 |     |      | .05  |     |   |    |      | .75  |     |    |    |    |    |    |    |     |     |      | .19  | .29 |     |     |     |    |    |     |      | .01    | 1.45 |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR JANUARY, 1909.

SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



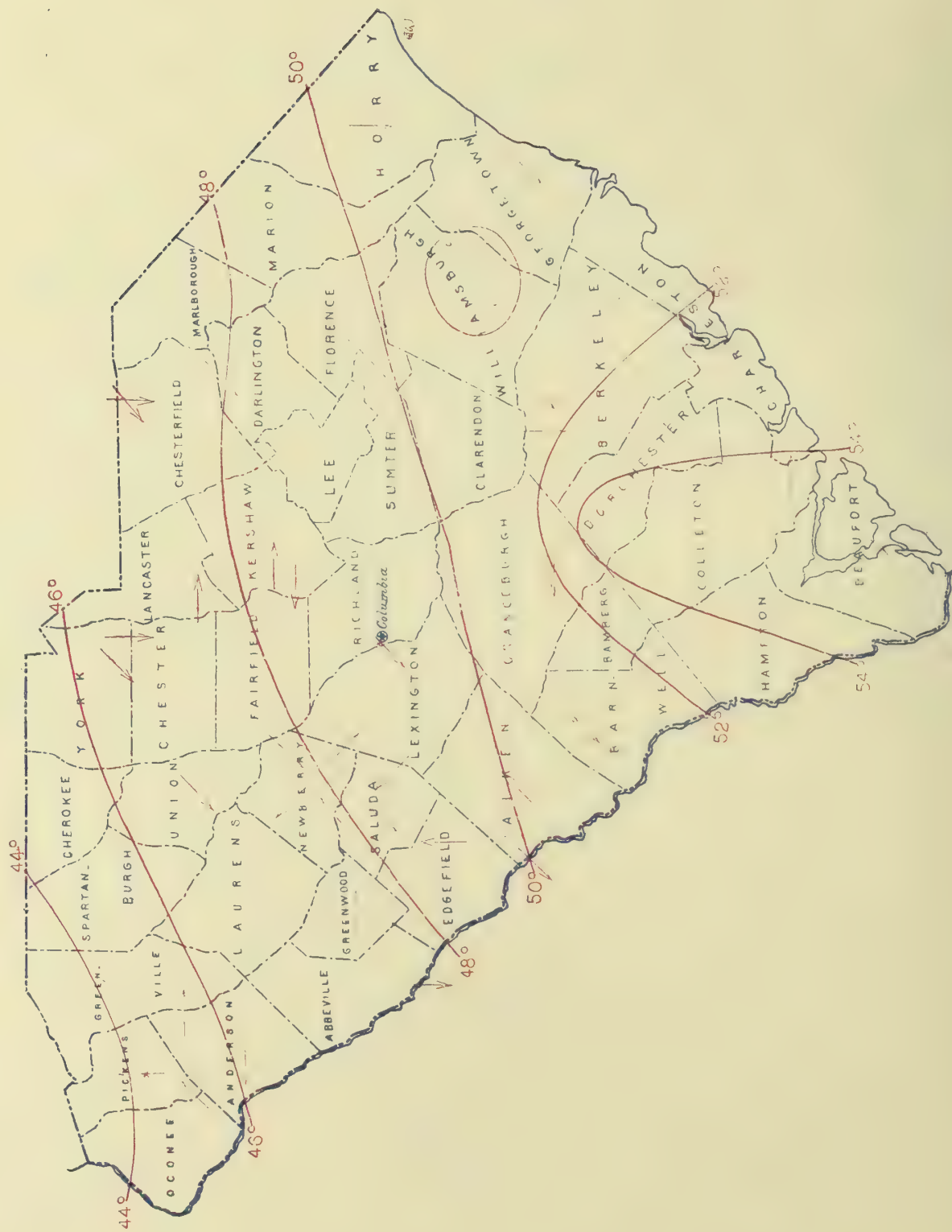
PITTSBURG, PA.

WEATHER BUREAU OFFICE

MARCH 18, 1909.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR JANUARY, 1909.

(Arrows fly with the wind.)





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

Vol. XII. COLUMBIA, S. C., JANUARY, 1909. No. 1.

## GENERAL SUMMARY.

The first decade had about normal temperature, the second and most of the third decades were unusually warm, and a severe cold wave occurred on the last two days, causing lower temperatures than have been recorded since 1903; the precipitation was below the normal over the whole State, and the sunshine was slightly above the normal. It was the second warmest January of record, the mean temperature having been 53.4° in 1907, or 3.8° higher than this month, while in 1898 the month was nearly as warm, the mean temperature having been 49.2°. The coolest January was that of 1904, when the mean was 40.2°. It was also the second driest January, the average precipitation in 1907 having been only 0.70 of an inch, or less than half the amount recorded this month. The three wettest Januarys occurred in 1895, 1898 and 1906, with 7.31, 4.72 and 5.85 inches, respectively.

The mean temperature ranged from nearly 56° in the extreme southern portion to slightly above 44° in the extreme northwestern portion, the difference in mean temperature between these sections having been somewhat greater than usual. The gradation in temperatures from the coast to the coast to the mountains was uniform. The highest temperatures were recorded at all stations from the 10th to the 20th, the 14th, 17th and 19th having been the warmest days at a majority of stations. The highest temperature was 83°, which equalled the previous high temperature record, except in 1907 when 87° was recorded. The lowest temperatures were all recorded on the 31st in connection with a cold wave that caused freezing temperatures over the entire State. The minimum temperature fell to, or below, freezing on from 12 to 15 days in the western counties and on from 1 to 4 days along the coast.

The precipitation was less than two inches over the greater portion, the amounts increasing to slightly over four inches in the northwestern counties. There was a small area covering Florence county that received between two and three inches. There were two generally rainy periods; the first began on the 4th and ended on the 6th, and the second period began on the 12th and ended on the 17th. In addition to these periods there was a fairly general tho quite light rainfall on the 29th. The precipitation was practically all in the form of rain. One station recorded a trace of snow, and three stations recorded sleet on one day. The average number of days with rain this year, and in 1902, was 5. The smallest number of rainy days was 4 in 1907; during other years the average number ranged from 6 to 13 days.

## TEMPERATURE.

The mean temperature was 49.6, which is 5.2° above the normal. The highest local monthly mean was 55.6°, at Beaufort; the lowest was 44.5, at Greenville. The monthly temperature extremes were 83° at Blackville on the 24th, and at Walterboro on the 25th, and 9° at Heath Springs on the 31st, making the State range 74°. The greatest local monthly range was 69° at Allendale, Blackville, Clarks Hill, Georgetown and Society Hill; the least was 59°, at Beaufort and Charleston. The mean of the daily maximum temperatures was 59.7, and of the daily minimum temperatures was 39.6, making the average daily range 20.1°.

## PRECIPITATION.

The average precipitation was 1.54 inches, which is 2.09 inches below the normal. The greatest local monthly amount was 4.74 inches, at Clemson College; the least was 0.50 of an inch at Ferguson. The greatest 24-hour rainfall was 1.70 inches at Clemson College on the 16th. The average number of days with .01 or more precipitation was 5, ranging from 1 day at Ferguson to 10 days at Greenville and Pelzer.

EXCESSIVE PRECIPITATION.—None occurred.

## WIND.

The prevailing wind was northeast at 18 stations, north at 8 stations, west at 6 stations, southwest at 4 stations, east at 3 stations, and southeast, south and northwest at 2 stations each.

## CLOUDINESS.

The average number of clear days was 12, of partly cloudy days 9, and of cloudy days 10.

## MISCELLANEOUS PHENOMENA.

PARHELION.—At Santuc on the 3d.

DENSE SMOKE.—At Trial on the 27th, 28th.

LUNAR CORONA.—At Winthrop College on the 11th.

SNOW.—A trace of snow fell at Newberry on the 9th.

SLEET.—Sleet occurred at Liberty, Santuc and Spartanburg on the 13th.

LUNAR HALOS.—At Camden on the 4th, 5th; at Winthrop College on the 5th.

THUNDERSTORMS.—At Beaufort on the 5th; at Bowman on the 4th; at Georgetown on the 14th.

HIGH WINDS.—At Beaufort, Bowman, Camden, Liberty, Trial on the 29th, 20th, 31st; at Blackville on the 29th; at Charleston, Cheraw, Clarks Hill, Columbia on the 30th, 31st; at Ferguson on the 31st; at Heath Springs, Newberry on the 29th, 30th; at Saluda on the 28th, 29th, 30th; at Spartanburg on the 7th, 29th, 30th; at Winthrop College on the 28th, 29th.

DENSE FOGS.—At Beaufort on the 14th, 21st, 24th; at Blackville on the 13th, 15th, 20th, 21st, 23d; at Bowman on the 3d, 13th, 14th, 15th, 29th, 21st; at Camden on the 5th, 11th, 12th, 14th, 15th, 21st, 22d, 23d, 24th; at Charleston on the 6th, 14th, 15th, 20th, 24th; at Columbia on the 15th, 21st, 22d, 24th; at Georgetown on the 5th, 6th, 14th, 15th, 24th; at Liberty on the 4th, 6th, 12th, 14th, 15th, 16th, 21st, 22d; at Little Mountain on the 13th, 14th, 15th, 16th; at Newberry on the 11th, 14th, 21st, 22d, 24th; at Pelzer on the 6th, 21st; at Rimini on the 23d, 24th; at Saluda on the 14th, 15th; at Santuc on the 14th, 15th, 22d; at Spartanburg on the 11th, 15th; at Winthrop College on the 6th, 14th, 15th, 16th, 22d.



Pressure and Wind Table, January, 1909.

| Stations.             | Barometric pressure. |          |       |         |       | Wind.           |                 |                   |            |       |
|-----------------------|----------------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.                | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |                      |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.          | 30.10                | 30.45    | 8     | 29.50   | 29    | 4720            | 6.3             | 36                | W.         | 29    |
| Charleston.           | 30.18                | 30.42    | 8     | 29.46   | 29    | 7574            | 10.2            | 37                | W.         | 30    |
| Charlotte, N. C.      | 30.20                | 30.50    | 8     | 29.28   | 29    | 5242            | 7.0             | 40                | SW.        | 29    |
| Columbia.             | 30.18                | 30.48    | 2     | 29.45   | 29    | 5106            | 7.0             | 36                | W.         | 30    |
| Savannah, Ga.         | 30.18                | 30.41    | 2     | 29.52   | 29    | 5168            | 6.9             | 35                | NW.        | 30    |
| Wilmington, N. C.     | 30.18                | 30.48    | 2     | 29.36   | 29    | 5819            | 7.8             | 36                | SW.        | 29    |
| Averages or extremes. | 30.18                | 30.50    | 8     | 29.28   | 29    | 5620            | 7.5             | 40                | SW.        | 29    |

River Gage Readings, January, 1909.

| Stations.        | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|--------------|-------|----------|-------|---------|-------|
| Blairs.          | 14           | 2.0   | 5.0      | 18    | 0.8     | 26    |
| Calhoun Falls.   | 15           | 3.7   | 5.0      | *7    | 2.9     | *28   |
| Camden.          | 24           | 9.8   | 15.8     | 8     | 7.0     | 30    |
| Catawba.         | 11           | 4.0   | 6.8      | 7     | 2.6     | 30    |
| Chappells.       | 14           | 4.2   | 12.7     | 18    | 1.9     | 4     |
| Cheraw.          | 27           | 6.4   | 14.6     | 18    | 4.1     | 29    |
| Columbia.        | 15           | 3.1   | 6.8      | 18    | 2.3     | *5    |
| Conway.          | 7            | 3.2   | 4.0      | 8     | 1.8     | 11    |
| Effingham.       | 12           | 5.1   | 6.5      | *25   | 4.0     | 14    |
| Ferguson.        | 12           | 12.3  | 13.5     | 1     | 11.0    | *18   |
| Kingstree.       | 12           | 3.2   | 4.0      | *5    | 2.7     | 26    |
| Mt. Holly, N. C. | 15           | 2.2   | 3.1      | 17    | 2.0     | *1    |
| Pelzer.          | 7            | 4.3   | 6.0      | 17    | 3.4     | *2    |
| Rimini.          | 12           | 11.9  | 13.5     | *21   | 0.6     | 11    |
| Smiths Mills.    | 16           | 11.0  | 14.7     | 2     | 8.1     | 10    |

\*On other dates also.

## REMARKS BY OBSERVERS.

BEAUFORT: The highest temperature exceeded the record for the last 19 years, and the lowest temperature fell below the record for the last 5 years. As a whole the month was dry and warm. The freezing temperatures on the last two days did extensive damage. Owing to the dryness numerous forest fires occurred. The need of rain was urgent at the end of the month.—Miss LILLIAN H. RICE.

BOWMAN: The month was noteworthy for the large number of cloudy days and its scant precipitation. Streams and ponds continue unusually low. Occasional jasmine blooms were noted. Maple trees were in bloom on the 15th.—B. O. EVANS.

SANTUC: The month was dry and mild, tho ending with a cold wave. The weather was unseasonably warm during the second half until the 29th.—E. W. JETER.

SUMMERVILLE: The relative humidity for the month was 77 per centum. Extremely high winds prevailed during the 29th.—Miss E. H. GADSDEN.

## ERRATA.

The following correction should be made in the November, 1908, Monthly Report: On page 85, at Little Mountain, the highest temperature and date, 76 on the 9th, should be 77 on the 11th.

## CLIMATOLOGY OF FLORENCE, S. C.

## Temperature.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|------|------|------|------|------|-------|-------|------|-------|------|------|------|-------|
| 1887. |      | 55   |      |      | 74   |       |       |      |       |      |      |      |       |
| 1888. |      |      |      |      |      |       |       | 81   | 73    | 65   | 57   | 39   |       |
| 1889. | 43   |      | 55   |      | 75   |       | 82    | 77   | 73    | 61   | 56   |      |       |
| 1890. |      |      |      |      | 74   | 80    | 80    | 79   | 74    | 64   | 58   |      |       |
| 1891. |      |      |      |      | 71   |       | 79    | 81   | 75    | 60   | 52   |      |       |
| 1892. |      |      |      | 64   | 73   | 80    | 80    | 82   | 73    | 63   | 53   |      |       |
| 1893. |      |      |      | 68   | 72   | 78    | 85    | 80   | 76    | 64   | 53   |      |       |
| 1894. |      |      |      |      | 74   | 80    | 80    | 80   | 77    | 65   | 59   |      |       |
| 1895. |      |      |      |      | 63   | 69    | 81    | 81   | 82    | 79   | 61   | 53   | 45    |
| 1896. | 44   | 46   | 53   | 67   | 77   | 79    | 82    | 81   | 73    | 60   | 57   | 41   | 63.5  |
| 1897. | 41   | 49   | 55   | 61   | 68   | 73    | 80    | 77   | 74    | 64   | 54   | 46   | 61.9  |
| 1898. | 46   | 44   | 59   | 52   | 74   | 80    | 82    | 81   | 76    | 64   |      | 46   |       |
| 1899. | 44   | 44   | 57   | 60   | 73   | 80    | 81    | 82   | 73    | 64   | 54   | 44   | 63.1  |
| 1900. | 44   | 44   | 51   | 62   | 71   | 77    | 83    | 84   | 77    | 67   |      |      |       |
| 1901. | 44   | 42   | 53   | 56   | 73   | 78    | 83    | 81   | 74    | 62   | 46   | 43   | 61.3  |
| 1902. | 41   | 40   | 54   | 60   | 74   | 80    | 84    | 79   | 72    | 65   | 59   | 47   | 63.0  |
| 1903. | 44   | 49   | 61   | 61   | 72   | 75    | 82    | 81   | 72    | 61   | 50   | 40   | 62.5  |
| 1904. | 40   | 46   | 55   | 60   | 71   | 77    | 80    | 79   | 74    | 61   | 50   | 44   | 61.4  |
| 1905. | 40   | 38   | 54   | 62   | 73   | 79    | 81    | 78   | 76    | 64   | 54   | 45   | 62.4  |
| 1906. | 48   | 44   | 52   | 64   | 71   | 79    | 80    | 82   | 78    | 61   |      | 48   |       |
| 1907. | 52   | 44   | 60   | 56   | 71   | 76    | 82    | 81   | 78    | 62   | 53   | 47   | 63.4  |
| 1908. | 45   | 44   | 61   | 67   | 73   | 79    | 81    | 80   | 73    | 63   | 56   | 51   | 64.4  |
| M'ns  | 44.0 | 44.9 | 56.0 | 61.4 | 72.5 | 78.3  | 81.4  | 80.4 | 74.8  | 62.9 | 54.1 | 44.7 | 63.5  |

## Precipitation.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|-------|
| 1888. |      |      |      |      |      |       |       | 3.08  | 7.28  | 3.76 |      |      |       |
| 1889. |      |      |      |      | 5.64 |       | 5.89  | 11.89 | 1.46  | 2.46 | 4.11 |      |       |
| 1890. |      |      |      |      | 4.86 | 3.24  | 6.08  | 5.12  | 4.12  | 1.56 |      |      |       |
| 1891. | 1    |      |      |      | 2.96 |       | 2.63  | 5.70  | 2.08  | 2.55 | 2.34 |      |       |
| 1892. |      |      |      | 1.04 | 3.33 | 4.85  | 10.26 | 2.57  | 3.46  | 0.48 | 1.94 |      |       |
| 1893. |      |      |      |      | 4.08 | 12.61 | 3.38  |       | 5.29  | 4.41 | 2.63 |      |       |
| 1894. |      |      |      |      | 3.25 | 2.49  | 6.69  | 11.89 | 7.24  | 6.89 | 1.81 |      |       |
| 1895. | 7.30 | 4.00 | 5.10 | 3.92 | 4.44 | 3.26  | 3.44  | 4.06  | 1.47  | 2.04 | 1.72 | 2.38 | 43.13 |
| 1896. | 2.61 | 5.63 | 2.06 | 1.69 | 4.31 | 5.49  | 5.77  | 3.93  | 2.35  | 0.63 | 4.39 | 3.17 | 42.03 |
| 1897. | 1.74 | 7.84 | 1.67 | 2.27 | 3.12 | 6.42  | 6.45  | 4.32  | 2.40  | 1.95 | 2.56 | 2.91 | 45.85 |
| 1898. | 1.08 | 0.60 | 1.44 | 4.13 | 1.57 | 5.20  | 8.69  | 7.20  | 5.21  | 1.94 | 5.80 | 2.15 | 45.10 |
| 1899. | 4.51 | 6.58 | 2.41 | 4.06 | 0.75 | 6.44  | 3.31  | 3.77  | 2.30  | 4.83 | 0.72 | 1.70 | 41.08 |
| 1900. | 1.91 | 7.42 | 4.77 | 4.64 | 1.72 | 4.87  | 3.61  | 2.17  | 3.47  | 1.79 | 3.50 | 7.00 | 47.77 |
| 1901. | 3.41 | 2.62 | 3.97 | 4.74 | 8.15 | 6.00  | 3.47  | 9.96  | 3.88  | 0.88 | 1.20 | 3.67 | 52.45 |
| 1902. | 1.39 | 5.49 | 1.08 | 2.42 | 2.89 | 2.82  | 4.43  | 4.22  | 1.16  | 3.79 | 4.38 | 4.59 | 37.27 |
| 1903. | 4.24 | 6.85 | 8.74 | 3.28 | 1.45 | 5.73  | 5.27  | 5.92  | 4.30  | 4.51 | 0.89 | 2.32 | 53.50 |
| 1904. | 2.12 | 3.34 | 2.23 | 1.37 | 2.10 | 7.06  | 5.30  | 7.41  | 5.46  | 1.26 | 3.09 | 2.04 | 42.78 |
| 1905. | 1.71 | 4.58 | 2.18 | 4.26 | 4.94 | 4.66  | 4.11  | 4.64  | 3.63  | 3.28 | 1.27 | 4.02 | 43.28 |
| 1906. | 3.63 | 4.01 | 5.13 | 0.69 | 2.12 | 10.84 | 6.47  | 5.76  | 2.41  | 2.18 | 0.60 | 3.01 | 46.85 |
| 1907. | 0.26 | 3.43 | 1.13 | 4.35 | 3.38 | 7.21  | 4.91  | 2.06  | 4.86  | 0.55 | 3.00 | 4.18 | 39.38 |
| 1908. | 3.60 | 6.52 | 3.89 | 6.12 | 4.46 | 3.43  | 6.79  | 6.33  | 6.77  | 4.44 | 1.26 | 1.36 | 54.97 |
| M'ns  | 2.82 | 5.93 | 3.41 | 3.27 | 3.50 | 5.71  | 5.25  | 5.60  | 3.82  | 2.80 | 2.44 | 3.24 | 47.79 |

## Extremes of Temperature and Precipitation.

| Month.          | Temperature.                |       |                            |       | Precipitation.       |       |                   |       |
|-----------------|-----------------------------|-------|----------------------------|-------|----------------------|-------|-------------------|-------|
|                 | Highest<br>monthly<br>mean. | Year. | Lowest<br>monthly<br>mean. | Year. | Greatest<br>monthly. | Year. | Least<br>monthly. | Year. |
| January .....   | 52                          | 1907  | 40                         | *1904 | 7.30                 | 1895  | 0.26              | 1901  |
| February .....  | 55                          | 1887  | 38                         | 1905  | 7.84                 | 1897  | 0.69              | 1896  |
| March .....     | 61                          | *1903 | 51                         | 1900  | 8.74                 | 1903  | 1.13              | 1901  |
| April .....     | 68                          | 1893  | 52                         | 1898  | 6.12                 | 1908  | 0.69              | 1906  |
| May .....       | 77                          | 1896  | 68                         | 1897  | 8.35                 | 1901  | 0.75              | 1899  |
| June .....      | 81                          | 1895  | 73                         | 1897  | 12.61                | 1893  | 2.82              | 1902  |
| July .....      | 85                          | 1893  | 80                         | *1890 | 10.26                | 1892  | 2.43              | 1902  |
| August .....    | 84                          | 1900  | 77                         | *1889 | 11.89                | *1889 | 2.06              | 1907  |
| September ..... | 79                          | 1895  | 72                         | *1902 | 7.28                 | 1888  | 1.16              | 1892  |
| October .....   | 67                          | 1900  | 60                         | *1891 | 6.89                 | 1894  | 0.48              | 1894  |
| November .....  | 59                          | *1894 | 46                         | 1901  | 5.80                 | 1898  | 0.60              | 1906  |
| December .....  | 48                          | 1906  | 39                         | 1888  | 7.90                 | 1900  | 1.36              | 1901  |

\*Other years also.

## COMPARATIVE JANUARY DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |                  |                |                | Number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|------------------|----------------|----------------|--------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                  | Least Monthly. |                |                    |                            |
|           |              |               |               |          |          |                | Amount.           | Place.           | Amount.        | Place.         |                    |                            |
| 1894..... | 47.9         | 57.6          | 40.6          | 77       | 19       | 3.15           | 5.19              | Holland.         | 1.19           | Port Royal.    | 10                 | NE.                        |
| 1895..... | 44.2         | 52.3          | 36.8          | 80       | 5        | 7.31           | 10.29             | Conway.          | 4.23           | Port Royal.    | 13                 | SW.                        |
| 1896..... | 43.8         | 53.5          | 34.2          | 72       | 9        | 3.02           | 4.54              | Longshore.       | 1.51           | Cheraw.        | 6                  | NE.                        |
| 1897..... | 42.2         | 51.4          | 32.7          | 76       | 3        | 2.29           | 4.80              | Holland.         | 0.13           | Batesburg.     | 7                  | DW.                        |
| 1898..... | 49.2         | 59.3          | 39.1          | 82       | 8        | 1.80           | 4.06              | Central.         | 0.19           | Charleston.    | 6                  | SW.                        |
| 1899..... | 44.4         | 54.2          | 34.7          | 78       | 17       | 4.72           | 6.75              | Holland.         | 2.84           | Charleston.    | 11                 | D.                         |
| 1900..... | 44.0         | 54.6          | 33.5          | 75       | 3        | 2.43           | 5.65              | Georgetown.      | 1.58           | Stateburg.     | 8                  | DW.                        |
| 1901..... | 45.1         | 55.3          | 34.9          | 81       | 18       | 3.55           | 5.60              | Liberty.         | 1.20           | Pinopolis.     | 9                  | DW.                        |
| 1902..... | 42.4         | 53.0          | 31.8          | 80       | 11       | 2.05           | 4.18              | Longshore.       | 0.36           | Blackville.    | 5                  | SW.                        |
| 1903..... | 43.7         | 52.4          | 35.0          | 77       | 13       | 3.85           | 7.10              | Georgetown.      | 2.40           | Walhalla.      | 11                 | W.                         |
| 1904..... | 40.2         | 50.5          | 30.0          | 74       | 8        | 2.97           | 4.78              | Summerville.     | 0.82           | Bennettsville. | 8                  | D.                         |
| 1905..... | 41.4         | 51.5          | 31.2          | 77       | 8        | 2.00           | 4.84              | Walhalla.        | 0.30           | St. George.    | 7                  | W.                         |
| 1906..... | 47.0         | 56.1          | 37.8          | 83       | 12       | 5.85           | 11.69             | Liberty.         | 3.52           | Bennettsville. | 11                 | D.                         |
| 1907..... | 53.4         | 64.1          | 42.6          | 89       | 18       | 0.71           | 1.91              | Georgetown.      | T.             | Yorkville.     | 4                  | SW.                        |
| 1908..... | 44.2         | 54.5          | 33.9          | 76       | 17       | 4.86           | 7.53              | Clemson College. | 2.49           | Charleston.    | 9                  | W.                         |
| 1909..... | 49.6         | 59.7          | 39.6          | 83       | 9        | 1.54           | 4.74              | Clemson College. | 0.50           | Ferguson.      | 5                  | DE.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF JANUARY, 1909.

| STATIONS.                      | Counties.         | Elevation<br>feet. | Length of<br>records<br>years. | Temperature—in degrees Fahrenheit |                               |          |       |         |       |                          | Precipitation—in inches. |                               |                          |                                |                       | Sky                   |                               |                       |     |                       | Prevailing<br>direction<br>of wind. | Observers. |
|--------------------------------|-------------------|--------------------|--------------------------------|-----------------------------------|-------------------------------|----------|-------|---------|-------|--------------------------|--------------------------|-------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|-----|-----------------------|-------------------------------------|------------|
|                                |                   |                    |                                | Month.                            | Departure from<br>the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily<br>range. | Total.                   | Departure from<br>the normal. | Greatest in 24<br>hours. | Total station<br>(unimproved). | Number rainy<br>days. | Number clear<br>days. | Number partly<br>cloudy days. | Number heavy<br>days. |     |                       |                                     |            |
|                                |                   |                    |                                |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     |                       |                                     |            |
| Aiken.....                     | Aiken.....        | 508                | 28                             | 51.2                              | +5.2                          | 78       | 25    | 13      | 11    | 43                       | 2.01                     | -1.70                         | 0.85                     | 0                              | 4                     | 21                    | 1                             | 9                     | sw. | C. F. McGahan, M. D.  |                                     |            |
| Allendale.....                 | Barnwell.....     | 186                | 21                             | 52.2                              | +6.9                          | 79       | 25    | 10      | 11    | 44                       | 1.45                     | -1.46                         | 0.82                     | 0                              | 3                     | 16                    | 9                             | 12                    | e.  | A. R. Hiers           |                                     |            |
| Anderson.....                  | Anderson.....     | 704                | 8                              | 46.6                              | +5.0                          | 75       | *24   | 11      | 11    | 41                       | 1.12                     | -1.70                         | 1.35                     | 0                              | 8                     | 18                    | 0                             | 13                    | ne. | H. H. Russell         |                                     |            |
| Augusta, Ga.....               | Richmond.....     | 180                | 18                             | 50.2                              | +4.3                          | 76       | 25    | 10      | 11    | 44                       | 0.99                     | -1.10                         | 0.43                     | 0                              | 6                     | 10                    | 8                             | 14                    | ne. | U. S. Weather Bureau  |                                     |            |
| Barksdale.....                 | Laurens.....      | 134                | 8                              |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | J. T. Garrett         |                                     |            |
| Batesburg.....                 | Lexington.....    | 656                | 21                             | 47.8                              | +1.8                          | 77       | 23    | 11      | 31    | 30                       | 1.25                     | -2.42                         | 0.96                     | 0                              | 3                     | 14                    | 2                             | 15                    | se. | E. J. Hite            |                                     |            |
| Beaufort.....                  | Beaufort.....     | 20                 | 23                             | 55.6                              | 5.6                           | 78       | 25    | 10      | 11    | 33                       | 0.66                     | -2.15                         | 0.43                     | 0                              | 5                     | 10                    | 10                            | 5                     | ne. | Miss Lillian H. Rice. |                                     |            |
| Bennettsville.....             | Marlboro.....     | 151                | 8                              |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | C. S. McCall          |                                     |            |
| Blackville.....                | Barnwell.....     | 206                | 21                             | 51.0                              | +5.8                          | 81       | 24    | 14      | 30    | 41                       | 1.27                     | -1.51                         | 0.92                     | 0                              | 6                     | 12                    | 0                             | 13                    | ne. | Miss M. E. Lange      |                                     |            |
| Blairs.....                    | Fairfield.....    | 203                | 4                              |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | T. S. McMeekin        |                                     |            |
| Bowman.....                    | Orangeburg.....   | 160                | 8                              | 51.2                              |                               | 81       | 25    | 14      | 11    | 37                       | 1.00                     |                               | 0.58                     | 0                              | 3                     | 13                    | 4                             | 14                    | e.  | B. O. Evans           |                                     |            |
| Calhoun Falls.....             | Abbeville.....    | 508                | 16                             |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | P. J. Pfeiffer        |                                     |            |
| Camden (1).....                | Kershaw.....      | 222                | 43                             | 49.4                              |                               | 77       | 25    | 15      | 31    | 34                       | 0.98                     |                               | 0.37                     | 0                              | 6                     | 14                    | 7                             | 10                    | w.  | J. B. Mickle          |                                     |            |
| Camden (2).....                | Kershaw.....      | 222                | 43                             |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | W. C. Brown           |                                     |            |
| Catawba.....                   | York.....         | 550                | 4                              |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | Jas. C. Faris         |                                     |            |
| Chappells.....                 | Newberry.....     | 402                | 4                              |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | M. C. Rivers          |                                     |            |
| Charleston.....                | Charleston.....   | 48                 | 39                             | 53.6                              | +4.3                          | 78       | 25    | 10      | 31    | 28                       | 0.61                     | -2.84                         | 0.45                     | 0                              | 5                     | 9                     | 10                            | 12                    | ne. | U. S. Weather Bureau  |                                     |            |
| Charlotte, N. C.....           | Mecklenburg.....  | 773                | 31                             | 45.2                              | +4.8                          | 75       | 25    | 14      | 31    | 28                       | 1.64                     | -2.65                         | 0.85                     | T.                             | 9                     | 7                     | 15                            | 9                     | ne. | U. S. Weather Bureau  |                                     |            |
| Cheraw (1).....                | Chesterfield..... | 144                | 21                             | 44.0                              | +4.6                          | 78       | 25    | 17      | 31    | 36                       | 1.08                     | -1.04                         | 0.53                     | 0                              | 5                     | 5                     | 4                             | 22                    | ne. | W. R. Godfrey         |                                     |            |
| Cheraw (2).....                | Chesterfield..... | 144                | 16                             |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | Jno. H. Powe          |                                     |            |
| Clarks Hill.....               | Edgefield.....    | 456                | 7                              | 45.8                              |                               | 79       | 24    | 10      | 31    | 40                       | 1.54                     |                               | 0.63                     | 0                              | 4                     |                       |                               |                       |     | Wm. S. Middleton      |                                     |            |
| Clemson College.....           | Oconee.....       | 850                | 18                             | 45.9                              | +5.2                          | 72       | *24   | 10      | 31    | 39                       | 4.74                     | -0.01                         | 1.70                     | 0                              | 6                     | 16                    | 4                             | 11                    | sw. | Prof. Jno. N. Hook    |                                     |            |
| Columbia.....                  | Richland.....     | 351                | 22                             | 49.2                              | +4.1                          | 79       | 25    | 15      | 31    | 32                       | 1.54                     | -1.75                         | 0.64                     | 0                              | 5                     | 9                     | 10                            | 12                    | ne. | U. S. Weather Bureau  |                                     |            |
| Conway.....                    | Horry.....        | 25                 | 17                             | 51.8                              |                               | 82       | *11   | 20      | 31    | 47                       | 1.70                     | -1.72                         | 0.65                     | 0                              | 4                     | 8                     | 1                             | 22                    | ne. | P. C. Quattlebaum     |                                     |            |
| Darlington.....                | Darlington.....   | 175                | 14                             | 48.2                              |                               | 80       | 24    | 16      | 31    | 38                       | 0.71                     | -1.88                         | 0.38                     | 0                              | 6                     |                       |                               |                       |     | D. C. McCall          |                                     |            |
| Dillon.....                    | Marion.....       | 100                | 5                              |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | A. E. Rowell          |                                     |            |
| Edgingham.....                 | Florence.....     | 106                | 17                             |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | H. B. McCall          |                                     |            |
| Ferguson.....                  | Berkeley.....     | 51                 | 2                              |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | D. B. Gilliland, Jr.  |                                     |            |
| Florence.....                  | Florence.....     | 136                | 21                             | 48.8                              | +5.5                          | 79       | 23    | 18      | 31    | 49                       | 2.28                     | -0.10                         | 0.96                     | 0                              | 4                     | 16                    | 0                             | 15                    | ne. | H. K. Gilbert         |                                     |            |
| Georgetown.....                | Georgetown.....   | 12                 | 16                             | 51.4                              | +4.5                          | 78       | 25    | 10      | 30    | 37                       | 1.81                     | -2.10                         | 0.93                     | 0                              | 5                     | 14                    | 13                            | 4                     | ne. | Wm. Alden James       |                                     |            |
| Greenville.....                | Greenville.....   | 989                | 17                             | 44.5                              | +5.7                          | 77       | 25    | 13      | 31    | 31                       | 3.07                     | -1.41                         | 1.15                     | 0                              | 10                    | 11                    | 2                             | 18                    | sw. | Mrs. S. A. Crittenden |                                     |            |
| Greenwood.....                 | Greenwood.....    | 671                | 21                             | 46.0                              | +5.3                          | 74       | 24    | 14      | 31    | 32                       | 2.49                     | -0.85                         | 0.96                     | 0                              | 5                     | 16                    | 0                             | 15                    | w.  | M. M. Calhoun         |                                     |            |
| Heath Springs.....             | Lancaster.....    | 568                | 8                              | 48.6                              |                               | 76       | 25    | 9       | 31    | 31                       |                          |                               |                          |                                |                       |                       |                               |                       |     | J. A. Weaver          |                                     |            |
| Jacksonboro.....               | Colleton.....     | 13                 | 1                              | 53.2                              |                               | 78       | *23   | 18      | 31    | 28                       | 0.72                     |                               | 0.26                     | 0                              | 3                     | 11                    | 13                            | 7                     | w.  | W. E. Haskell, jr.    |                                     |            |
| Kingstree (1).....             | Williamsburg..... | 54                 | 21                             | 52.8                              | +7.0                          | 80       | 25    | 20      | 31    | 31                       | 0.91                     | -0.99                         | 0.33                     | 0                              | 7                     | 15                    | 3                             | 13                    | ne. | J. A. Scott           |                                     |            |
| Kingstree (2).....             | Williamsburg..... | 54                 | 15                             |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | A. O. Matthews        |                                     |            |
| Liberty.....                   | Pickens.....      | 900                | 15                             | 46.9                              | +6.2                          | 75       | 24    | 12      | 31    | 33                       | 1.75                     | -1.20                         | 1.32                     | 0                              | 7                     | 12                    | 8                             | 11                    | s.  | Jno. T. Boggs         |                                     |            |
| Little Mountain.....           | Newberry.....     | 711                | 16                             | 48.8                              | +4.7                          | 77       | 25    | 13      | 31    | 33                       | 1.33                     | -1.70                         | 0.50                     | 0                              | 6                     | 15                    | 6                             | 10                    | nw. | J. M. Sease, M. D.    |                                     |            |
| Newberry.....                  | Newberry.....     | 502                | 5                              | 47.4                              | +5.4                          | 77       | 25    | 14      | 31    | 34                       | 1.43                     | -2.45                         | 0.62                     | T.                             | 8                     | 10                    | 9                             | 12                    | se. | W. G. Peterson        |                                     |            |
| Pelzer.....                    | Anderson.....     | 873                | 4                              |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | John M. Ward          |                                     |            |
| Pinopolis.....                 | Berkeley.....     | 54                 | 16                             | 51.8                              | +4.9                          | 76       | 29    | 20      | 31    |                          | 1.25                     | -1.96                         | 0.47                     | 0                              | 3                     |                       |                               |                       |     | Miss E. P. Ravenel    |                                     |            |
| St. George.....                | Dorchester.....   | 109                | 21                             | 54.6                              | +9.4                          | 80       | 25    | 18      | 31    | 31                       | 1.35                     | -1.28                         | 0.75                     | 0                              | 2                     | 23                    | 0                             | 8                     | ne. | G. T. Lewis           |                                     |            |
| St. Matthews.....              | Calhoun.....      | 209                | 21                             | 46.8                              | +1.8                          | 77       | 25    | 14      | 31    | 36                       | 1.74                     | -1.14                         | 0.80                     | 0                              | 4                     | 15                    | 0                             | 16                    | ne. | J. S. Wannamaker      |                                     |            |
| Saluda.....                    | Saluda.....       | 530                | 7                              | 48.1                              |                               | 76       | 25    | 14      | 31    | 32                       | 2.02                     |                               | 0.75                     | 0                              | 7                     | 17                    | 2                             | 11                    | ne. | Alvin Etheridge       |                                     |            |
| Santee.....                    | Union.....        | 512                | 15                             | 46.5                              | +5.0                          | 76       | 25    | 14      | 31    | 30                       | 1.48                     | -1.83                         | 0.75                     | 0                              | 6                     | 10                    | 11                            | 10                    | ne. | E. W. Jeter           |                                     |            |
| Savannah, Ga.....              | Chatham.....      | 71                 | 39                             | 54.9                              | +5.0                          | 80       | 25    | 19      | 31    | 24                       | 0.65                     | -2.48                         | 0.46                     | 0                              | 4                     | 11                    | 9                             | 11                    | w.  | U. S. Weather Bureau  |                                     |            |
| Smiths Mill.....               | Williamsburg..... | 62                 | 14                             |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | W. G. Walker          |                                     |            |
| Society Hill.....              | Darlington.....   | 192                | 18                             | 47.4                              | +4.7                          | 75       | 25    | 16      | 30    | 34                       | 1.40                     | -1.51                         | 0.66                     | 0                              | 5                     | 18                    | 5                             | 8                     | ne. | Major J. J. Lucas     |                                     |            |
| Spartanburg.....               | Spartanburg.....  | 875                | 18                             | 45.8                              | +5.1                          | 75       | *24   | 13      | 31    | 36                       | 2.53                     | -0.75                         | 0.95                     | 0                              | 7                     | 10                    | 0                             | 21                    |     | F. P. Robinson        |                                     |            |
| Stateburg.....                 | Sumter.....       | 500                | 32                             |                                   |                               |          |       |         |       |                          |                          |                               |                          |                                |                       |                       |                               |                       |     | W. W. Anderson, M. D. |                                     |            |
| Summerville.....               | Dorchester.....   | 75                 | 12                             | 53.2                              | +5.5                          | 81       | 25    | 16      | 31    | 35                       | 0.58                     | -2.68                         | 0.21                     | 0                              | 7                     | 4                     | 24                            | 3                     | ne. | Miss E. H. Gadsden    |                                     |            |
| Trenton.....                   | Edgefield.....    | 620                | 16                             | 48.6                              | +2.8                          | 74       | 25    | 10      | 31    | 30                       | 1.23                     | -2.08                         | 0.48                     | 0                              | 5                     | 13                    | 9                             | 9                     | s.  | C. A. Long            |                                     |            |
| Trial.....                     | Berkeley.....     | 85                 | 23                             | 50.2                              | +4.7                          | 81       | 25    | 17      | 31    | 37                       | 0.88                     | -2.96                         | 0.27                     | 0                              | 4                     | 7                     | 12                            | 12                    | ne. | Etsell Gaillard       |                                     |            |
| Walterboro.....                | Colleton.....     | 69                 | 5                              | 54.9                              |                               | 83       | 25    | 17      | 31    | 34                       | 0.83                     |                               | 0.38                     | 0                              | 8                     | 13                    | 5                             | 13                    | n.  | J. A. Westerberg      |                                     |            |
| Wilmington, N. C.....          | New Hanover.....  | 78                 | 39                             | 50.6                              | +5.0                          | 79       | 25    | 10      | 31    | 26                       | 1.06                     | -2.44                         | 0.85                     | 0                              | 6                     | 10                    | 12                            | 9                     | e.  | U. S. Weather Bureau  |                                     |            |
| Winnboro.....                  | Fairfield.....    | 545                | 20                             |                                   |                               | 77       | 25    | 26      | 8     |                          | 3.67                     | +0.49                         | 1.75                     | 0                              | 5                     | 15                    | 7                             | 9                     | ne. | John W. Seigler       |                                     |            |
| Winthrop College.....          | York.....         | 690                | 10                             | 47.0                              |                               | 77       | 25    | 14      | 30    | 34                       | 1.06                     |                               | 0.46                     | 0                              | 6                     | 18                    | 3                             | 9                     |     | E. R. Rivers          |                                     |            |
| Yemassee.....                  | Hampton.....      | 23                 | 14                             | 51.4                              | +8.7                          | 78       | 25    | 17      | 31    | 37                       | 0.58                     | -3.02                         | 0.18                     | 0                              | 5                     | 19                    | 0                             | 12                    |     | J. G. Hutson          |                                     |            |
| Means, extremes and dates..... |                   |                    |                                | 49.6                              | -5.2                          | 83       | *24   | 9       | 31    | 47                       | 1.54                     | -2.09                         | 1.75                     | T.                             | 5                     | 12                    | 9                             | 10                    |     |                       |                                     |            |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed non-registering thermometer not standard. \* On other dates also. a. Indicates 1 day missing; b. 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



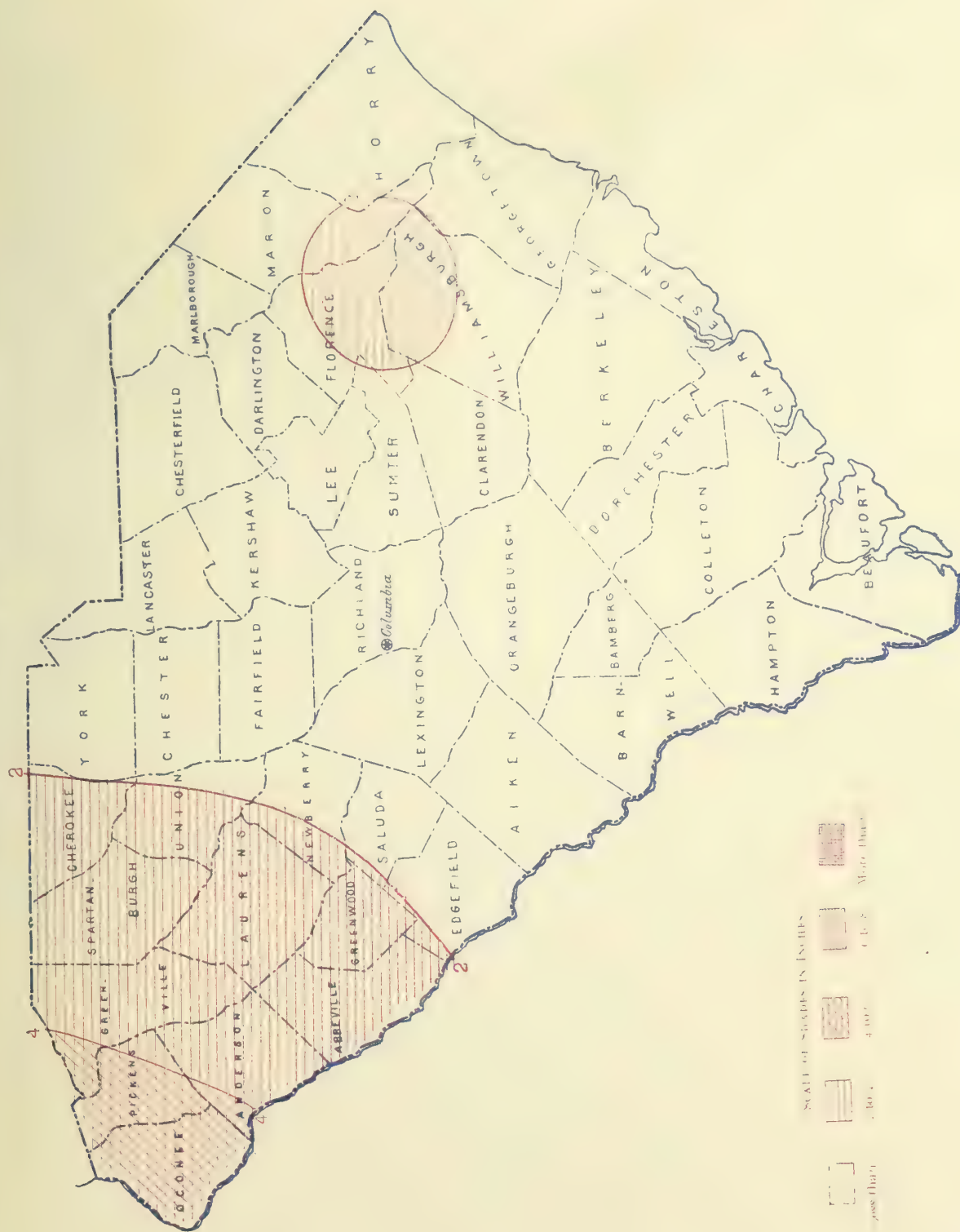
DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JANUARY, 1909.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs.  
† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.



# TOTAL PRECIPITATION FOR JANUARY, 1909



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JANUARY, 1909.

| STATIONS.         | DAY OF MONTH. |   |     |      |      |     |     |     |    |    |    |     |     |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     | TOTAL. |      |
|-------------------|---------------|---|-----|------|------|-----|-----|-----|----|----|----|-----|-----|-----|-----|------|------|------|-----|----|----|----|----|-----|----|----|----|----|----|-----|-----|--------|------|
|                   | 1             | 2 | 3   | 4    | 5    | 6   | 7   | 8   | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16   | 17   | 18   | 19  | 20 | 21 | 22 | 23 | 24  | 25 | 26 | 27 | 28 | 29 | 30  | 31  |        |      |
| Aiken             |               |   |     |      | .56  |     |     |     |    |    |    |     | .85 |     |     | .30  | .30  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 2.01   |      |
| Allendale*        |               |   |     |      | .82  | .43 |     |     |    |    |    |     |     |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.45   |      |
| Anderson          |               |   | .07 | 1.30 |      |     |     |     |    |    |    | .15 | .07 |     | .05 | .35  | .03  |      |     |    |    |    |    |     |    |    |    |    |    | .10 |     | 3.12   |      |
| Augusta, Ga.      |               |   | T.  |      | .33  |     |     |     |    |    |    |     | .46 | .08 | .02 | .06  |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 0.99   |      |
| Barksdale         |               |   |     |      |      |     |     |     |    |    |    |     |     |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        |      |
| Batesburg*        |               |   |     |      | .09  |     |     |     |    |    |    |     |     | .20 |     |      | .96  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.25   |      |
| Beaufort          |               |   | .11 |      | .33  | .03 |     |     |    |    |    |     | .14 |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    | .05 |     | 0.66   |      |
| Bennettsville     |               |   |     |      |      |     |     |     |    |    |    |     |     |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        |      |
| Blackville*       |               |   | T.  | .92  | .03  |     | T.  |     |    |    |    | T.  | .02 | .03 |     | .25  |      |      |     |    |    |    |    |     |    |    |    |    |    | .02 |     | 1.27   |      |
| Blairs*           |               |   |     |      |      |     |     |     |    |    |    |     | .20 | .08 |     | .04  | .94  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.27   |      |
| Bowman            |               |   | T.  | .58  |      |     | T.  |     |    |    |    |     |     |     |     | .29  | .15  |      |     |    |    |    |    |     |    |    |    |    |    |     | .08 | 1.34   |      |
| Calhoun Falls*    |               |   |     |      |      | .34 |     |     |    |    |    |     |     |     | .27 | .31  |      | .22  | .92 |    |    |    |    |     |    |    |    |    |    |     |     | 1.02   |      |
| Camden (1)        |               |   |     |      | .16  |     |     |     |    |    |    | T.  | .26 | .02 |     | .10  | .37  |      |     |    |    |    |    |     |    |    |    |    |    | .13 |     | 2.10   |      |
| Camden (2)*       |               |   |     |      | .04  | .12 |     |     |    |    |    |     | .38 | .08 |     | .04  | .50  |      |     |    |    |    |    |     |    |    |    |    |    | .07 |     | 0.98   |      |
| Catawba*          |               |   |     |      | .08  | .08 |     |     |    |    |    |     | .08 | .16 |     | .34  | .34  |      |     |    |    |    |    |     |    |    |    |    |    |     | .10 | 1.26   |      |
| Chappells*        |               |   |     |      |      |     |     |     |    |    |    |     | .20 |     |     |      | .10  | .72  |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.02   |      |
| Charleston        |               |   | .02 | .11  | .34  | T.  |     |     |    |    |    |     | .09 | T.  |     | T.   | T.   |      |     |    |    |    |    |     |    |    |    |    |    |     | .05 |        | 0.61 |
| Charlotte, N. C.  |               |   |     | .04  | .20  |     | T.  | T.  | T. |    |    |     | T.  |     | .16 | .70  | .01  |      |     |    |    |    |    |     |    |    |    |    |    | .02 |     | 1.64   |      |
| Cheraw (1)*       |               |   |     |      | T.   | .05 |     |     |    |    |    |     | .13 | .01 | T.  | .36  | .53  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.08   |      |
| Cheraw (2)*       |               |   |     | T.   | .02  | .01 |     |     |    |    |    |     | .16 | .03 |     | .40  | .53  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.13   |      |
| Clarks Hill       |               |   |     | T.   |      | .39 |     |     |    |    |    |     | .63 | T.  | T.  | .22  | .70  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.54   |      |
| Clemson College   |               |   |     | .93  | 1.40 |     |     |     |    |    |    |     | .24 |     |     | .15  | 1.70 |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 4.74   |      |
| Columbia          |               |   |     | T.   |      | .39 |     |     |    |    |    | .19 | .45 | T.  |     | .44  | .07  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.54   |      |
| Conway*           |               |   |     |      | .25  | .50 | .30 |     |    |    |    |     | T.  |     |     |      | .65  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.70   |      |
| Darlington        |               |   | .03 |      |      | .06 | .17 |     |    |    |    |     | .39 | T.  |     | .02  | .04  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 0.71   |      |
| Dillon            |               |   |     |      |      |     |     |     |    |    |    |     |     |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        |      |
| Effingham*        |               |   |     |      |      | .40 |     |     |    |    |    |     |     |     |     |      | .60  | .85  |     |    |    |    |    |     |    |    |    |    |    |     |     | 2.35   |      |
| Ferguson*         |               |   |     |      |      | T.  | .50 |     |    |    |    |     | .20 |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 0.50   |      |
| Florence*         |               |   |     |      |      | .40 | .96 |     |    |    |    |     | .20 | .05 |     |      | .26  | .41  |     |    |    |    |    |     |    |    |    |    |    |     |     | 2.28   |      |
| Georgetown        |               |   | T.  | .93  | .05  |     |     |     |    |    |    |     | .34 |     | .15 | T.   | .34  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 1.81   |      |
| Greenville*       |               |   |     | .25  | .03  |     | T.  |     |    |    |    | .11 | .17 | .04 | .05 |      | 1.10 | 1.15 |     |    |    |    |    |     |    |    |    |    |    |     |     | 3.07   |      |
| Greenwood*        |               |   |     |      |      |     |     |     |    |    |    |     |     | .18 | .21 |      | .96  | .80  |     |    |    |    |    |     |    |    |    |    |    | .15 | .02 | 2.49   |      |
| Heath Springs     |               |   |     |      |      | .34 |     |     |    |    |    |     |     |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        |      |
| Jacksonboro       |               |   | T.  |      | .26  | .26 |     |     |    |    |    |     | .44 | .02 | .15 | .35  | T.   |      |     |    |    |    |    |     |    |    |    |    |    |     | .06 |        | 0.72 |
| Kingstree (1)*    |               |   |     | .10  | .33  | .04 |     |     |    |    |    |     |     |     | .15 | .01  | .01  | .27  |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 0.91 |
| Kingstree (2)*    |               |   |     | .05  | T.   | .35 |     |     |    |    |    |     |     |     | .15 |      | T.   | .27  |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 0.82 |
| Liberty           |               |   |     | .30  | 1.32 |     | T.  |     | T. |    |    |     | .05 | T.  | .30 | 1.62 |      |      |     |    |    |    |    | .06 |    |    |    |    |    |     | .10 |        | 3.75 |
| Little Mountain   |               |   |     |      | .15  |     |     |     |    |    |    |     | .50 | .06 | .05 | .34  | .25  |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.33 |
| Newberry          |               |   |     | .03  | .00  |     |     |     |    |    |    |     | .35 | .10 | .08 | .08  | .62  |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.43 |
| Pelzer*           |               |   |     | .20  | 1.00 | .06 |     |     |    |    |    |     | .20 | .30 | .02 | .30  | 1.40 |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 3.64 |
| Pinopolis         |               |   |     |      |      | .41 |     |     |    |    |    |     |     |     |     |      | .47  |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.25 |
| St. George*       |               |   |     |      |      | .60 |     |     |    |    |    |     |     |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.35 |
| St. Matthews*     |               |   |     |      |      | .80 | .69 |     |    |    |    |     | .21 | .05 |     |      |      | .75  |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.76 |
| Saluda            |               |   |     |      |      | .36 |     |     |    |    |    |     | .53 | .02 | .04 | .75  | .24  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | 2.02   |      |
| Santee            |               |   |     |      |      | .13 |     |     |    |    |    |     | .06 | .38 |     | T.   | .75  | .09  |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.48 |
| Savannah, Ga.     |               |   | .05 |      | .46  | T.  |     |     |    |    | T. |     | T.  |     | .02 | T.   |      |      |     | T. |    |    |    |     |    |    |    |    |    |     |     |        | 0.65 |
| Smiths Mills*     |               |   | .05 | .47  | .53  |     |     |     |    |    |    |     |     |     |     |      | .29  |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.57 |
| Society Hill      |               |   |     | .09  | .01  |     |     |     |    |    |    |     |     |     |     | .10  | .66  |      |     |    |    |    |    |     |    |    |    |    |    |     |     | .23    | 1.40 |
| Spartanburg*      |               |   |     | .10  | .77  | .05 |     |     |    |    |    |     | T.  |     |     | .23  | .33  | .95  |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 2.53 |
| Stateburg         |               |   |     |      |      |     |     |     |    |    |    |     |     |     |     |      |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        |      |
| Summerville       |               |   | .03 | .03  | .12  | .02 | .01 | T.  |    |    |    |     | T.  | T.  |     | T.   | .21  |      |     |    |    |    |    |     |    |    |    |    |    |     | .16 |        | 0.58 |
| Trenton           |               |   |     |      | .40  |     |     |     |    |    |    |     | T.  | .25 |     |      | .28  | .20  |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.23 |
| Trial             |               |   | .10 |      | .15  |     | T.  |     |    |    |    |     |     |     |     |      | .27  |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 0.58 |
| Walterboro        |               |   | .13 | .02  | .20  |     | T.  | .02 |    |    |    |     | .01 |     |     | .38  | .01  |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 0.83 |
| Wilmington, N. C. |               |   | .03 |      | .85  |     |     |     |    |    |    |     |     |     | .03 | .03  | .01  |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.06 |
| Winnsboro         |               |   |     |      | .30  |     |     |     |    |    |    |     | T.  | .25 | .37 | 1.00 | 1.75 |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 3.67 |
| Winthrop College  |               |   |     |      | .20  |     |     |     |    |    |    |     | T.  | .30 | .04 | .03  | .46  | .03  |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 1.06 |
| Yemassee*         |               |   | .06 | .07  | .12  | .08 |     |     |    |    |    |     | T.  |     |     | .15  |      |      |     |    |    |    |    |     |    |    |    |    |    |     |     |        | 0.58 |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR FEBRUARY, 1909.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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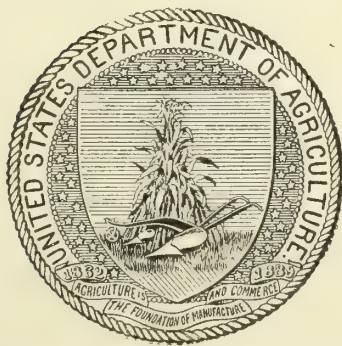
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



PITTSBURG, PA.

WEATHER BUREAU OFFICE

MARCH 27 1909.

# MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR FEBRUARY, 1909

Arrows fly with the wind.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

Vol. XII. COLUMBIA, S. C., FEBRUARY, 1909.

No. 2.

## GENERAL SUMMARY.

The month was unusually mild, with nearly normal precipitation and more than the usual amount of bright sunshine. The first two days were cold, being a continuation of the January cold wave, and the latter part of the third decade was cool, the remainder of the month having been decidedly warmer than usual. It was the warmest February of record, the mean temperature having been  $2.2^{\circ}$  higher than the previous highest, which was  $50.0^{\circ}$  in 1897. The lowest February mean temperature was  $37.4$  in 1895. The range in mean temperatures during the last fifteen years for this month is  $14.8^{\circ}$ . The average precipitation was nearly normal, and was exceeded in amount in eight of the last fifteen years. The wettest February was that of 1897, with an average of 7.80 inches; the driest was that of 1898, with 0.86 of an inch. The greatest local amount in any February during the last fifteen years was 12.48 inches at Clemson College in 1903; the least was 0.34 of an inch at St. George in 1898.

The temperature was much below the normal on the first two days, followed by a warm wave that prevailed to the 24th, interrupted by moderate cool waves with freezing temperatures over the western divisions on the 8th, 11th and 17th. The last week had variable temperatures, generally below the normal. The lowest temperatures for the month were recorded at all stations on the 1st; the highest temperatures were recorded on the 6th and 15th at a few stations, tho the period from the 21st to the 24th, inclusive, was the warmest part of the month, with departures from the normal ranging from  $10^{\circ}$  to over  $20^{\circ}$ . No freezing temperatures occurred along the immediate coast after the 1st.

The precipitation was well distributed except in the coast region, where the monthly amounts were generally below two inches, being from an inch to nearly two inches below the normal. Over the greater portion of the State the amounts received ranged from 4 to 6 inches, exceeding 6 inches in Florence County, and in the Savannah valley from Edgefield to Oconee County. There was a small deficiency in Fairfield County, and a slight excess in western Lexington County. The precipitation was all in the form of rain, except flurries of snow on one day in the extreme northwestern portion. An unusually large number of thunderstorms occurred during the month, having been especially numerous on the 5th-6th, 10th, 19th and 22d.

The prevailing direction of wind was normal, and the wind movement slightly greater than normal. A noteworthy feature of the weather was the exceptionally low percentage of relative humidity on a number of days thruout the month.

## TEMPERATURE.

The mean temperature was  $52.2^{\circ}$ , which is  $6.2^{\circ}$  above the normal. The highest local monthly mean was  $55.2^{\circ}$  at Beaufort; the lowest was  $47.6$  at Greenville. The monthly temperature extremes were  $84^{\circ}$  at Blackville on the 22d, and at Bowman on the 23d, and  $12^{\circ}$  at Liberty and St. Matthews on the 1st, making the monthly range  $72^{\circ}$ . The greatest local monthly range was  $70^{\circ}$  at Bowman; the least was  $50^{\circ}$  at Georgetown. The mean of the daily maximum temperatures was  $63.8^{\circ}$ , and of the daily minimum temperatures  $40.5^{\circ}$ , making the average daily range  $23.3^{\circ}$ .

## PRECIPITATION.

The average precipitation was 4.49 inches, which is 0.14 of an inches below the normal. The greatest local monthly amount was 7.42 inches at Calhoun Falls; the least was 1.86 inches at Charleston. The greatest 24-hour rainfall was 2.67 inches at Allendale on the 10th. The average number of days with rain was 8, ranging from 5 days at Bowman, Pinopolis and St. George to 13 days at Anderson.

EXCESSIVE PRECIPITATION.—At Allendale on the 10th, 2.67 inches in 24 hours; at St. Matthews on the 9th, 2.40 inches in 4 hours.

## WIND.

The prevailing wind was southwest at 17 stations, west at 16 stations, northwest at 5 stations, south at 3 stations, north and southeast at 2 stations each and east at 1 station.

## CLOUDINESS.

The average number of clear days was 15, of partly cloudy days 7, and of cloudy days 6.

## MISCELLANEOUS PHENOMENA.

DENSE FOGS.—At Charleston on the 22d.

LUNAR CORONA.—At Winthrop College on the 4th, 12th.

HAIL.—At Anderson on the 21st; at Batesburg and Johnston on the 23d.

LUNAR HALOS.—At Beaufort, Charleston, Winthrop College on the 27th; at Blackville on the 26th; at Camden on the 6th.

HIGH WINDS.—At Beaufort on the 9th, 10th; at Bowman on the 6th, 7th, 9th, 10th, 11th, 16th, 19th; at Charleston on the 6th; at Camden on the 7th, 9th, 10th, 15th, 16th, 19th, 24th; at Cheraw on the 10th 16th; at Columbia on the 6th, 7th, 9th, 10th, 19th, 20th, 24th, 25th, 27th; at Georgetown on the 5th, 7th, 9th, 10th, 24th; at Heath Springs on the 10th, 19th; at Jacksonboro on the 7th, 15th, 19th; at Liberty on the 7th, 10th, 24th; at Newberry on the 10th; at Saluda on the 7th, 9th, 16th, 17th, 19th; at Smiths Mills on the 9th, 10th, 11th; at Summerville on the 6th, 10th, 19th, 23d; at Trial on the 5th, 7th, 9th, 10th, 16th, 19th, 23d; at Winthrop College on the 23d, 24th, 25th.

THUNDERSTORMS.—An unusually large number of thunderstorms occurred, twenty-seven stations having reported 79 thunderstorms during the month, distributed as follows: Eight on the 5th, 14 on the 6th, 1 on the 7th, 4 on the 9th, 14 on the 10th, 1 on the 11th, 3 on the 15th, 1 on the 16th, 14 on the 19th, 1 on the 20th, 6 on the 21st, 9 on the 22d and 3 on the 23d.



Pressure and Wind Table, February, 1909.

| Stations.             | Barometric pressure. |          |       |         |       | Wind.           |                 |                   |            |       |
|-----------------------|----------------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.                | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |                      |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.          | 30.10                | 30.55    | 1     | 29.61   | 19    | 5455            | 8.1             | 36                | W.         | 7     |
| Charleston.           | 30.12                | 30.51    | 1     | 29.69   | 19    | 7470            | 11.1            | 37                | S.         | 6     |
| Charlotte, N. C.      | 30.06                | 30.57    | 1     | 29.50   | 19    | 6832            | 10.2            | 36                | SW.        | 10    |
| Columbia.             | 30.08                | 30.56    | 1     | 29.66   | 19    | 6504            | 9.7             | 40                | W.         | 9     |
| Savannah, Ga.         | 30.13                | 30.55    | 1     | 29.77   | 19    | 6327            | 9.4             | 31                | W.         | 7     |
| Wilmington, N. C.     | 30.10                | 30.51    | 1     | 29.57   | 19    | 6952            | 10.3            | 40                | SW.        | 24    |
| Averages or extremes. | 30.10                | 30.57    | 1     | 29.50   | 19    | 6590            | 9.8             | 40                | *W.        | 19    |

\*And southwest on 24th.

River Gage Readings, February, 1909.

| Stations.        | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|--------------|-------|----------|-------|---------|-------|
| Blairs           | 14           | 2.6   | 9.2      | 11    | 0.8     | 4     |
| Calhoun Falls.   | 15           | 4.2   | 7.0      | 23    | 2.6     | 5     |
| Camden           | 24           | 11.9  | 23.5     | 11    | 6.5     | 7     |
| Catawba          | 11           | 4.3   | 6.8      | 11    | 2.4     | 6     |
| Chappells        | 14           | 7.8   | 15.7     | 11    | 2.8     | 9     |
| Cheraw           | 27           | 7.8   | 21.2     | 11    | 3.3     | 5     |
| Columbia         | 15           | 4.2   | 11.5     | 11    | 1.6     | 2     |
| Conway           | 7            | 3.0   | 5.2      | 28    | 1.0     | 8     |
| Effingham        | 12           | 6.4   | 10.3     | 26    | 4.0     | *3    |
| Ferguson         | 12           | 11.9  | 13.5     | *16   | 0.4     | *3    |
| Kingstree        | 12           | 4.3   | 7.0      | 24    | 2.2     | *5    |
| Mt. Holly, N. C. | 15           | 2.2   | 3.0      | 24    | 2.0     | *1    |
| Pelzer           | 7            | 5.0   | 6.6      | *23   | 3.8     | 5     |
| Rimini           | 12           | 11.8  | 14.4     | 16    | 8.5     | 2     |
| Smiths Mills     | 16           | 9.0   | 11.9     | 20    | 5.3     | 8     |

\* On other dates also.

## REMARKS BY OBSERVERS.

BEAUFORT.—Severe frosts occurred on the 1st and 2d. There were frequent high winds, with an estimated velocity of 40 miles per hour on the 10th. The first thunder storm of the year occurred on the 19th. The month was remarkable in that not a day was cloudy.—Miss LILLIAN H. RICE.

BOWMAN.—The month was noteworthy for the many clear days, only one day having been cloudy. There was a large number of windy days.—B. O. EVANS.

GREENVILLE.—A flurry of snow fell on the 7th.—Mrs. S. A. CRITTENDEN.

LIBERTY.—There were unusually large numbers of thunderstorms and high winds for the month. Peach, plum and pear trees began to bloom.—JOHN T. BOGGS.

SANTUC.—The temperature on the 1st was the lowest for the season, and the lowest for several years; the remainder of the month was mild, and particularly noteworthy on account of the numerous thunderstorms that occurred.—E. W. JETER.

SUMMERVILLE.—Extremely high winds prevailed on the 6th and moderately high on the 11th. A high wind and rain storm swept a part of the village on the 19th, uprooting trees, while the rest of the village experienced only moderate rainfall and light winds. A slight earthquake occurred about 11 p. m. of the 25th. Relative humidity, 65 per cent.—Miss E. H. GADSDEN.

TRENTON.—The total precipitation since January 1st is 3.63 inches less than the normal for the same period. Heavy hail fell at Johnston, S. C., on the 5th.—C. A. LONG.

CLIMATOLOGY OF SANTUC, S. C.

| Year. | Temperature. |      |      |      |      |       |       |      |       |      |      |      | Ann'l |
|-------|--------------|------|------|------|------|-------|-------|------|-------|------|------|------|-------|
|       | Jan.         | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |       |
| 1893. | 47           | 47   | 57   | 61   | 69   | 77    | 76    | 75   | 74    | 61   | 50   | 47   | 61.8  |
| 1894. | 42           | 34   | 49   | 59   | 67   | 76    | 78    | 78   | 73    | 57   | 42   | 45   | 59.1  |
| 1895. | 40           | 40   | 50   | 65   | 76   | 75    | 79    | 79   | 73    | 59   | 36   | 40   | 62.4  |
| 1896. | 39           | 46   | 53   | 60   | 67   | 77    | 79    | 76   | 71    | 65   | 52   | 45   | 60.9  |
| 1897. | 46           | 41   | 56   | 55   | 78   | 70    | 79    | 77   | 73    | 61   | 47   | 43   | 61.1  |
| 1898. | 42           | 39   | 53   | 58   | 72   | 79    | 80    | 81   | 73    | 62   | 52   | 43   | 61.1  |
| 1900. | 42           | 42   | 50   | 61   | 66   | 76    | 80    | 83   | 77    | 66   | 54   | 43   | 61.9  |
| 1901. | 43           | 42   | 52   | 54   | 70   | 78    | 81    | 78   | 71    | 59   | 45   | 41   | 59.4  |
| 1902. | 39           | 38   | 52   | 58   | 72   | 77    | 81    | 78   | 70    | 62   | 50   | 44   | 60.6  |
| 1903. | 40           | 46   | 58   | 58   | 70   | 72    | 80    | 80   | 71    | 60   | 49   | 38   | 60.1  |
| 1904. | 38           | 41   | 53   | 53   | 61   | 76    | 78    | 75   | 73    | 60   | 49   | 42   | 59.2  |
| 1905. | 38           | 36   | 50   | 62   | 71   | 79    | 80    | 76   | 75    | 63   | 53   | 42   | 61.0  |
| 1906. | 43           | 44   | 48   | 63   | 60   | 77    | 78    | 80   | 75    | 59   | 52   | 46   | 61.3  |
| 1907. | 51           | 43   | 60   | 54   | 68   | 73    | 81    | 79   | 75    | 59   | 49   | 43   | 61.2  |
| 1908. | 42           | 49   | 59   | 64   | 71   | 76    | 79    | 78   | 71    | 60   | 54   | 48   | 61.8  |
| M'ns  | 42.1         | 41.6 | 53.8 | 59.3 | 70.1 | 76.2  | 79.3  | 78.1 | 73.0  | 61.0 | 51.2 | 43.2 | 60.7  |

## Precipitation.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|-------|
| 1893. |      |      |      |      |      |       |       |       | 4.57  | 5.86 | 2.50 | 1.41 | ..... |
| 1894. | 3.77 | 4.66 | 1.86 | 2.43 | 2.54 | 6.13  | 5.77  | 4.75  | 3.71  | 5.34 | 2.65 | 5.32 | 51.93 |
| 1895. | 7.47 | 2.61 | 4.07 | 5.58 | 3.78 | 2.20  | 1.55  | 7.11  | 1.08  | 0.89 | 4.43 | 4.38 | 45.15 |
| 1896. | 3.26 | 6.14 | 1.64 | 0.97 | 2.31 | 3.56  | 8.00  | 2.63  | 6.01  | 1.52 | 4.55 | 3.03 | 43.62 |
| 1897. | 2.79 | 8.82 | 5.87 | 4.11 | 3.61 | 4.77  | 3.60  | 3.20  | 2.06  | 2.21 | 2.32 | 2.2  | 45.59 |
| 1898. | 2.48 | 0.90 | 4.83 | 4.72 | 0.85 | 2.16  | 8.54  | 6.39  | 2.90  | 3.54 | 3.1  | 1.74 | 42.04 |
| 1899. | 4.12 | 8.51 | 5.70 | 1.40 | 2.17 | 1.38  | 6.30  | 2.07  | 2.68  | 4.70 | 2.32 | 3.34 | 45.33 |
| 1900. | 1.94 | 5.50 | 6.71 | 6.00 | 2.06 | 6.65  | 4.33  | 2     | 1.24  | 2.20 | 4.04 | 4.05 | 46.99 |
| 1901. | 3.06 | 3.17 | 4.91 | 6.78 | 5.46 | 4.16  | 2.66  | 12.28 | 6.34  | 0.92 | 0.85 | 6.49 | 57.08 |
| 1902. | 3.32 | 7.64 | 3.65 | 3.79 | 2.45 | 3.61  | 1.60  | 4.33  | 3.49  | 7.2  | 4.77 | 3.54 | 49.78 |
| 1903. | 3.46 | 7.75 | 8.19 | 4.75 | 2.30 | 6.97  | 2.75  | 3.95  | 4.86  | 3.02 | 1.22 | 1.60 | 56.82 |
| 1904. | 2.35 | 3.02 | 3.03 | 0.98 | 1.75 | 2.72  | 7.13  | 0.57  | 1.00  | 0.38 | 3.19 | 3.96 | 30.98 |
| 1905. | 0.86 | 5.06 | 1.03 | 3.20 | 7.21 | 0.63  | 5.21  | 10.87 | 1.05  | 0.96 | 0.84 | 9.93 | 47.84 |
| 1906. | 0.96 | 1.73 | 5.09 | 1.67 | 2.62 | 6.21  | 5.31  | 8.37  | 4.02  | 2.68 | 0.88 | 3.26 | 49.61 |
| 1907. | 0.50 | 4.07 | 2.15 | 4.78 | 3.28 | 4.28  | 6     | 3.43  | 7.80  | 1.16 | 7.06 | 7.13 | 52.21 |
| 1908. | 6.41 | 5.82 | 4.49 | 2.88 | 2.86 | 4.47  | 4.66  | 14.69 | 1.75  | 6.26 | 1.86 | 4.20 | 60.35 |
| M'ns  | 3.52 | 5.19 | 4.23 | 3.61 | 3.02 | 3.99  | 4.89  | 5.79  | 3.41  | 3.24 | 2.90 | 4.10 | 47.89 |

## Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      | Precipitation. |                   |       |
|-----------|-----------------------|-------|----------------------|----------------|-------------------|-------|
|           | Highest monthly mean. | Year. | Lowest monthly mean. | Year.          | Greatest monthly. | Year. |
| January   | 51                    | 1907  | 38                   | *1904          | 7.47              | 1895  |
| February  | 47                    | 1894  | 34                   | 1895           | 8.82              | 1895  |
| March     | 60                    | 1907  | 48                   | 1906           | 8.19              | 1903  |
| April     | 64                    | 1908  | 53                   | 1904           | 6.78              | 1901  |
| May       | 78                    | 1898  | 67                   | *1895          | 5.46              | 1901  |
| June      | 79                    | *1891 | 72                   | 1903           | 6.07              | 1903  |
| July      | 81                    | *1901 | 76                   | 1894           | 8.54              | 1898  |
| August    | 83                    | 1900  | 75                   | 1894           | 12.88             | 1901  |
| September | 77                    | 1900  | 70                   | 1902           | 7.80              | 1907  |
| October   | 66                    | 1906  | 57                   | 1895           | 8.34              | 1894  |
| November  | 56                    | 1896  | 45                   | 1901           | 7.06              | 1907  |
| December  | 48                    | 1908  | 38                   | 1903           | 9.93              | 1905  |

\* Other years also.

## ERRATA.

The following change should be made in the December, 1908, number Monthly Report: On page 93, at Clemson College, the lowest temperature and date 27, should be 26 on the 9th

COMPARATIVE FEBRUARY DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          |          | Precipitation.    |                  |                |                | Number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------|-------------------|------------------|----------------|----------------|--------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average. | Greatest Monthly. |                  | Least Monthly. |                |                    |                            |
|           |              |               |               |          |          |          | Amount.           | Place.           | Amount.        | Place.         |                    |                            |
| 1894..... | 48.9         | 57.7          | 40.1          | 76       | 16       | 4.35     | 6.61              | Trenton.         | 2.88           | Cheraw.        | 10                 | SW.                        |
| 1895..... | 37.4         | 45.5          | 29.2          | 78       | — 6      | 3.07     | 4.47              | Charleston.      | 1.20           | Shaws Fork.    | 7                  | NW.                        |
| 1896..... | 48.2         | 59.8          | 37.7          | 81       | 5        | 6.13     | 8.70              | Pinopolis.       | 3.55           | Port Royal.    | 8                  | SW.                        |
| 1897..... | 50.0         | 59.3          | 40.7          | 83       | 15       | 7.80     | 10.50             | Georgetown.      | 6.08           | Spartanburg.   | 11                 | SW.                        |
| 1898..... | 44.5         | 56.6          | 32.4          | 78       | 10       | 0.86     | 2.00              | Georgetown.      | 0.34           | St. George.    | 3                  | W.                         |
| 1899..... | 43.0         | 52.5          | 33.4          | 80       | — 11     | 6.98     | 12.30             | Trenton.         | 3.23           | Allendale.     | 12                 | W.                         |
| 1900..... | 44.0         | 53.9          | 34.0          | 78       | 1        | 5.77     | 10.61             | Holland.         | 1.86           | Yemassee.      | 10                 | W.                         |
| 1901..... | 43.2         | 53.7          | 32.8          | 78       | 7        | 3.08     | 5.40              | Georgetown.      | 1.28           | Winnsboro.     | 6                  | NW.                        |
| 1902..... | 40.6         | 50.1          | 31.1          | 77       | 11       | 5.83     | 10.51             | Barksdale.       | 2.38           | Yemassee.      | 8                  | NW.                        |
| 1903..... | 49.0         | 59.5          | 38.5          | 81       | 11       | 7.03     | 12.48             | Clemson College. | 2.07           | Charleston.    | 10                 | SW.                        |
| 1904..... | 45.2         | 54.7          | 35.6          | 86       | 15       | 3.59     | 5.35              | Walterboro.      | 1.95           | Allendale.     | 9                  | NE.                        |
| 1905..... | 38.9         | 48.0          | 29.8          | 72       | 0        | 5.21     | 8.20              | Blackville.      | 2.87           | Barksdale.     | 9                  | NE.                        |
| 1906..... | 46.0         | 57.2          | 34.8          | 76       | 12       | 2.58     | 7.26              | Georgetown.      | 0.96           | Greenville.    | 6                  | NE.                        |
| 1907..... | 45.1         | 54.9          | 35.3          | 84       | 16       | 3.63     | 5.69              | Society Hill.    | 1.61           | Charleston.    | 8                  | NE.                        |
| 1908..... | 43.6         | 53.5          | 33.6          | 81       | 12       | 5.28     | 9.06              | Effingham.       | 2.98           | Bennettsville. | 10                 | W.                         |
| 1909..... | 52.2         | 63.8          | 40.5          | 84       | 12       | 4.49     | 7.42              | Calhoun Falls.   | 1.86           | Charleston.    | 8                  | SW.                        |



CLIMATOLOGICAL DATA FOR THE MONTH OF FEBRUARY, 1909.

| STATIONS.                 | Counties.    | Elevation<br>feet | Length of record<br>years | Temperature— in degrees Fahrenheit |                              |         |     |        | Precipitation— in inches |        |       |                              |                      | Sky   |        |                   |                   | Observer |                       |                                    |                       |
|---------------------------|--------------|-------------------|---------------------------|------------------------------------|------------------------------|---------|-----|--------|--------------------------|--------|-------|------------------------------|----------------------|-------|--------|-------------------|-------------------|----------|-----------------------|------------------------------------|-----------------------|
|                           |              |                   |                           | Mean                               | Departure from<br>the normal | Highest | Low | Lowest | Days                     | Normal | Total | Departure from<br>the normal | Greatest in<br>month | Total | Normal | Number of<br>days | Number of<br>days |          | Number of<br>days     | Prevailing<br>direction<br>of wind |                       |
| Aiken                     | Aiken        | 565               | 28                        | 52.6                               | +4.6                         | 78      | 23  | 18     | 1                        | 3.4    | +1.72 | 1.80                         | 0                    | 8     | 20     | 0                 | 4                 | 0        | C. F. McGahan, M. D.  |                                    |                       |
| Albion                    | Barnwell     | 100               | 21                        | 53.5                               | +5.9                         | 84      | 24  | 18     | 1                        | 4.9    | 0     | 2.67                         | 0                    | 7     | 17     | 0                 | 8                 | 0        | A. R. Hart            |                                    |                       |
| Anderson                  | Anderson     | 764               | 28                        | 49.4                               | +6.3                         | 78      | 23  | 14     | 1                        | 3.8    | 0.87  | 2.18                         | 0                    | 14    | 14     | 0                 | 4                 | 0        | H. H. Russell.        |                                    |                       |
| Augusta, Ga.              | Richmond     | 180               | 38                        | 53.0                               | +4.0                         | 81      | 25  | 18     | 1                        | 3.8    | 0.49  | 1.19                         | 0                    | 11    | 16     | 0                 | 7                 | 0        | U. S. Weather Bureau. |                                    |                       |
| Barksdale                 | Laurens      | 134               | 8                         |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | J. T. Garrett         |                                    |                       |
| Batesburg                 | Lexington    | 656               | 21                        | 47.4                               | -8.1                         | 71      | 21  | 14     | 1                        | 4.1    | 6.08  | -0.04                        | 2.10                 | 0     | 8      | 18                | 2                 | 8        | 0                     | E. J. Hite.                        |                       |
| Beaufort                  | Beaufort     | 20                | 23                        | 55.2                               | +3.8                         | 76      | 26  | 21     | 1                        | 3.3    | 2.30  | 1.33                         | 0.88                 | 0     | 6      | 13                | 15                | 0        | SW.                   | Miss Lillian H. Rice.              |                       |
| Bennettsville             | Marlboro     | 151               | 8                         |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | C. S. McCall          |                                    |                       |
| Blackville                | Barnwell     | 240               | 21                        | 54.4                               | +8.8                         | 84      | 22  | 26     | 1                        | 4.2    | 4.18  | -0.81                        | 1.38                 | 0     | 7      | 18                | 6                 | 4        | 0                     | Miss M. E. Lange                   |                       |
| Blair                     | Fairfield    | 243               | 4                         |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | W. C. McMeekin        |                                    |                       |
| Bowman                    | Orangeburg   | 160               | 8                         | 52.0                               |                              | 84      | 23  | 14     | 1                        | 4.0    | 2.78  | 1.72                         | 0                    | 5     | 23     | 4                 | 1                 | 0        | W.                    | B. O. Evans.                       |                       |
| Calhoun Falls             | Abbeville    | 508               | 16                        |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | W. C. Brown           | J. B. Mickle                       |                       |
| Camden (1)                | Kershaw      | 222               | 43                        | 51.8                               |                              | 75      | 15  | 15     | 1                        | 4.5    | 4.13  | 1.40                         | 0                    | 10    | 16     | 4                 | 8                 | 0        | W.                    | W. C. Brown                        |                       |
| Camden (2)                | Kershaw      | 222               | 43                        |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | W. C. Brown           | J. B. Mickle                       |                       |
| Catawba                   | York         | 562               | 4                         |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | Jas. C. Faris.        | M. C. Rivers.                      |                       |
| Chapin                    | Newberry     | 492               | 4                         |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | U. S. Weather Bureau. | U. S. Weather Bureau.              |                       |
| Charleston                | Charleston   | 48                | 31                        | 55.0                               | +3.3                         | 75      | 23  | 24     | 1                        | 2.7    | 1.86  | -1.85                        | 0.47                 | 0     | 8      | 12                | 10                | 6        | SW.                   | U. S. Weather Bureau.              |                       |
| Charlotte, N. C.          | Mecklenburg  | 773               | 34                        | 48.9                               | +4.8                         | 72      | 18  | 16     | 1                        | 2.9    | 3.04  | 0.75                         | 1.45                 | 0     | 15     | 8                 | 10                | 10       | SW.                   | U. S. Weather Bureau.              |                       |
| Cheraw (1)                | Chesterfield | 144               | 21                        | 50.7                               | +0.1                         | 70      | 15  | 17     | 1                        | 4.4    | 3.42  | 1.27                         | 0.89                 | 0     | 9      | 16                | 4                 | 8        | 0                     | W. R. Godfrey.                     |                       |
| Cheraw (2)                | Chesterfield | 144               | 10                        |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | Jno. H. Powe.         | Wm. S. Middleton.                  |                       |
| Clarks Hill               | Edgefield    | 450               | 7                         | 50.0                               |                              | 80      | 23  | 13     | 1                        | 3.0    | 6.13  | 2.10                         | 0                    | 7     | 10     | 3                 | 14                | 0        | W.                    | Prof. Jno. N. Hook.                |                       |
| Clemson College           | Oconee       | 850               | 18                        | 49.2                               | +7.0                         | 71      | 22  | 14     | 1                        | 4.2    | 6.28  | +0.66                        | 1.55                 | 0     | 10     | 10                | 6                 | 6        | 0                     | W.                                 | U. S. Weather Bureau. |
| Columbia                  | Richland     | 381               | 22                        | 52.8                               | +4.0                         | 78      | 23  | 17     | 1                        | 4.2    | 4.42  | -0.17                        | 1.19                 | 0     | 10     | 11                | 0                 | 8        | 0                     | W.                                 | P. C. Quattlebaum.    |
| Conway                    | Horry        | 25                | 17                        | 54.0                               |                              | 78      | 22  | 20     | 1                        | 4.0    | 4.00  | 0.20                         | 1.10                 | 0     | 9      | 12                | 4                 | 12       | 0                     | SW.                                | D. C. McCall.         |
| Darlington                | Darlington   | 175               | 14                        | 52.6                               |                              | 77      | 4   | 22     | 1                        | 4.1    | 3.88  | 1.08                         | 1.25                 | 0     | 9      |                   |                   |          | A. E. Rowell.         | H. B. McCall.                      |                       |
| Dillon                    | Marion       | 100               | 5                         | 52.0                               |                              | 77      | 24  | 17     | 1                        | 4.2    | 4.23  | 1.32                         | 0                    | 9     |        |                   |                   |          | D. B. Gilliland, Jr.  | H. K. Gilbert.                     |                       |
| Edgingham                 | Florence     | 106               | 17                        |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | Wm. Alden James.      | Mrs. S. A. Crittenden.             |                       |
| Ferguson                  | Berkeley     | 51                | 2                         |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | M. M. Calhoun.        | J. A. Weaver.                      |                       |
| Florence                  | Florence     | 136               | 21                        | 52.4                               | +7.3                         | 77      | 23  | 18     | 1                        | 4.2    | 7.09  | +2.22                        | 2.16                 | 0     | 10     | 18                | 1                 | 9        | 0                     | W.                                 | W. E. Haskell, jr.    |
| Georgetown                | Georgetown   | 12                | 10                        | 54.0                               | +6.3                         | 76      | 22  | 26     | 1                        | 3.2    | 2.58  | -1.87                        | 0.70                 | 0     | 6      | 15                | 7                 | 6        | 0                     | SW.                                | J. A. Scott.          |
| Greenville                | Greenville   | 987               | 17                        | 47.6                               | +8.4                         | 69      | 15  | 15     | 1                        | 4.5    | 4.09  | -0.07                        | 1.90                 | 0     | 10     | 17                | 8                 | 3        | 0                     | SW.                                | A. O. Matthews.       |
| Greenwood                 | Greenwood    | 671               | 21                        | 48.4                               | +6.9                         | 75      | 23  | 14     | 1                        | 4.1    | 5.26  | +0.04                        | 2.19                 | 0     | 7      | 17                | 0                 | 11       | 0                     | W.                                 | Jno. T. Boggs.        |
| Heath Springs             | Lancaster    | 568               | 8                         | 50.4                               |                              | 73      | 15  | 15     | 1                        | 3.2    | 4.09  | 1.26                         | 0                    | 11    | 14     | 8                 | 6                 | 0        | W.                    | J. M. Sease, M. D.                 |                       |
| Jacksonboro               | Colleton     | 13                | 1                         | 53.5                               |                              | 76      | 23  | 21     | 1                        | 3.7    | 3.10  | 0.92                         | 0                    | 8     | 18     | 6                 | 4                 | 0        | SW.                   | W. G. Peterson.                    |                       |
| Kingstree (1)             | Williamsburg | 54                | 21                        | 54.0                               | +8.8                         | 76      | *21 | 20     | 1                        | 3.7    | 4.36  | +0.15                        | 1.60                 | 0     | 9      | 19                | 1                 | 8        | 0                     | W.                                 | John M. Ward.         |
| Kingstree (2)             | Williamsburg | 54                | 15                        |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | Miss E. P. Ravenel.   | G. T. Lewis.                       |                       |
| Liberty                   | Pickens      | 900               | 15                        | 48.8                               | +7.7                         | 73      | 22  | 12     | 1                        | 3.6    | 5.00  | +0.50                        | 1.15                 | 0     | 11     | 15                | 0                 | 3        | 0                     | SW.                                | J. S. Wannamaker.     |
| Little Mountain           | Newberry     | 711               | 10                        | 53.5                               | +9.2                         | 76      | 23  | 16     | 1                        | 4.1    | 5.36  | +0.28                        | 1.05                 | 0     | 8      | 17                | 5                 | 6        | 0                     | W.                                 | Alvin Etheridge.      |
| Newberry                  | Newberry     | 502               | 5                         | 51.5                               | +8.2                         | 77      | 23  | 15     | 1                        | 3.9    | 5.51  | +0.04                        | 1.94                 | 0     | 10     | 11                | 8                 | 0        | SW.                   | E. W. Jeter.                       |                       |
| Pelzer                    | Anderson     | 873               | 4                         |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | U. S. Weather Bureau. | W. G. Walker.                      |                       |
| Pinopolis                 | Berkeley     | 54                | 16                        | 55.2                               | +7.7                         | 76      | 23  | 24     | 1                        | 3.2    | 3.2   | -0.57                        | 1.59                 | 0     | 5      | 25                | 4                 | 3        | 0                     | SW.                                | Major J. J. Lucas.    |
| St. George                | Dorchester   | 109               | 21                        |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | F. P. Robinson.       | W. W. Anderson, M. D.              |                       |
| St. Matthews              | Calhoun      | 209               | 21                        | 51.2                               | +5.9                         | 77      | 23  | 12     | 1                        | 3.9    | 4.65  | -0.49                        | 2.40                 | 0     | 6      | 19                | 0                 | 0        | 0                     | SW.                                | Miss E. H. Gadsden.   |
| Saluda                    | Saluda       | 530               | 7                         | 52.1                               |                              | 80      | 23  | 14     | 1                        | 4.1    | 4.85  | 2.05                         | 0                    | 7     | 10     | 1                 | 8                 | 0        | W.                    | C. A. Long.                        |                       |
| Santee                    | Union        | 512               | 15                        | 49.8                               | -8.1                         | 74      | *15 | 13     | 1                        | 4.6    | 4.53  | 0.57                         | 1.53                 | 0     | 10     | 11                | 8                 | 0        | 0                     | SW.                                | Etsell Gaillard.      |
| Savannah, Ga.             | Chatham      | 71                | 39                        | 50.0                               | +3.5                         | 77      | 22  | 14     | 1                        | 2.8    | 1.13  | 1.95                         | 0.46                 | 0     | 6      | 12                | 12                | 4        | 0                     | W.                                 | J. A. Westerberg.     |
| Smiths Mill               | Williamsburg | 62                | 14                        |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | U. S. Weather Bureau. | W. G. Walker.                      |                       |
| Society Hill              | Darlington   | 192               | 18                        | 52.1                               | +8.2                         | 74      | 24  | 24     | 1                        | 4.1    | 3.11  | -0.74                        | 1.05                 | 0     | 7      | 14                | 1                 | 13       | 0                     | SW.                                | Major J. J. Lucas.    |
| Spartanburg               | Spartanburg  | 875               | 18                        | 48.4                               | +6.0                         | 71      | 21  | 16     | 1                        | 4.4    | 5.11  | -0.12                        | 1.82                 | 0     | 9      | 13                | 0                 | 15       | 0                     | SW.                                | F. P. Robinson.       |
| Stateburg                 | Sumter       | 500               | 12                        |                                    |                              |         |     |        |                          |        |       |                              |                      |       |        |                   |                   |          | W. W. Anderson, M. D. | Miss E. H. Gadsden.                |                       |
| Summerville               | Dorchester   | 75                | 12                        | 54.2                               | +6.8                         | 80      | 23  | 17     | 1                        | 3.9    | 3.14  | -0.76                        | 0.86                 | 0     | 6      | 11                | 17                | 0        | 0                     | SW.                                | C. A. Long.           |
| Trenton                   | Edgefield    | 620               | 16                        | 48.8                               | +2.9                         | 76      | 23  | 15     | 1                        | 3.9    | 5.74  | -0.33                        | 2.03                 | 0     | 7      | 18                | 7                 | 3        | 0                     | W.                                 | Etsell Gaillard.      |
| Trial                     | Berkeley     | 85                | 23                        | 53.8                               | +6.1                         | 80      | 23  | 14     | 1                        | 4.0    | 4.85  | +0.57                        | 1.70                 | 0     | 6      | 10                | 12                | 0        | 0                     | SW.                                | J. A. Westerberg.     |
| Walterboro                | Colleton     | 69                | 5                         | 55.1                               |                              | 81      | 24  | 10     | 1                        | 3.3    | 3.71  | 1.21                         | 0                    | 8     | 16     | 10                | 2                 | 0        | 0                     | SW.                                | U. S. Weather Bureau. |
| Wilmington, N. C.         | New Hanover  | 78                | 39                        | 53.1                               | +5.4                         | 73      | 6   | 20     | 1                        | 3.0    | 3.30  | -0.09                        | 1.11                 | 0     | 7      | 14                | 8                 | 0        | 0                     | W.                                 | John W. Seigler.      |
| Winnsboro                 | Fairfield    | 545               | 20                        | 52.0                               | +6.9                         | 75      | 23  |        |                          | 3.1    | 2.58  | 2.06                         | 0.85                 | 0     | 4      | 16                | 5                 | 2        | 0                     | SW.                                | E. R. Rivers.         |
| Winthrop College          | York         | 690               | 10                        | 51.0                               |                              | 74      | *15 | 15     | 1                        | 3.1    | 3.91  | 1.46                         | 0                    | 10    | 16     | 6                 | 6                 | 0        | SW.                   | J. G. Hutson.                      |                       |
| Yemassee                  | Hampton      | 23                | 14                        | 52.2                               | +4.2                         | 81      | 21  | 18     | 1                        | 3.8    | 2.38  | 2.37                         | 0.71                 | 0     | 7      | 19                | 2                 | 7        | 0                     | SW.                                |                       |
| Means, extremes and dates |              |                   |                           | 52.2                               | +6.2                         | 84      | *22 | 12     | 1                        | 46     | 4.49  | -0.14                        | 2.67                 | T     | 8      | 15                | 7                 | 6        | SW.                   |                                    |                       |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed non-registering thermometer not standard. \* On other dates also. a. Indicates 1 day missing; b. 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING FEBRUARY, 1909.

| STATIONS.        |       | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29   | 30   | 31   | Monthly mean. |      |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|---------------|------|
|                  |       | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max. | Min. | Max. | Min.          | Max. |
| Alben            | 45.18 | 38.27 | 62.34 | 67.40 | 67.42 | 68.51 | 62.39 | 62.39 | 56.20 | 68.43 | 62.40 | 56.32 | 62.37 | 62.50 | 75.54 | 75.60 | 60.51 | 52.40 | 60.33 | 60.48 | 66.42 | 73.47 | 75.81 | 78.64 | 76.34 | 76.34 | 66.31 | 66.39 | 62.33 |      |      |      | 64.1          |      |
| Allendale        | 48.18 | 63.25 | 65.30 | 71.33 | 70.38 | 74.20 | 64.31 | 64.31 | 60.31 | 74.37 | 62.30 | 61.30 | 68.36 | 64.40 | 79.52 | 77.57 | 63.58 | 53.33 | 65.32 | 65.36 | 68.43 | 78.44 | 77.52 | 83.53 | 69.65 | 69.65 | 66.31 | 66.39 | 62.33 |      |      |      | 64.1          |      |
| Anderson         | 45.14 | 61.26 | 65.30 | 66.35 | 65.52 | 62.38 | 64.31 | 64.31 | 55.31 | 74.37 | 62.30 | 58.30 | 63.34 | 56.40 | 70.52 | 69.54 | 58.36 | 53.33 | 65.32 | 65.36 | 68.43 | 78.44 | 77.52 | 83.53 | 69.65 | 69.65 | 66.31 | 66.39 | 62.33 |      |      |      | 64.1          |      |
| Augusta, Ga.     | 46.18 | 61.26 | 65.30 | 68.42 | 68.40 | 69.47 | 61.40 | 61.40 | 56.33 | 70.45 | 62.40 | 58.34 | 62.40 | 61.51 | 75.56 | 75.61 | 62.38 | 53.32 | 60.32 | 64.49 | 68.45 | 74.46 | 72.55 | 81.63 | 70.43 | 70.43 | 66.34 | 66.39 | 62.34 |      |      |      | 64.3          |      |
| Barksdale        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |               |      |
| Batesburg        | 48.14 | 59.16 | 60.31 | 64.32 | 64.37 | 67.43 | 58.37 | 58.37 | 65.31 | 64.35 | 54.44 | 57.33 | 60.35 | 57.42 | 69.50 | 69.55 | 57.53 | 51.28 | 56.31 | 55.37 | 62.37 | 67.41 | 71.50 | 74.53 | 62.62 | 62.62 | 59.34 | 60.39 | 62.42 |      |      |      | 60.6          |      |
| Beaufort         | 47.24 | 63.30 | 68.42 | 64.43 | 64.43 | 70.50 | 62.37 | 62.37 | 58.35 | 68.41 | 60.30 | 60.39 | 62.43 | 61.56 | 73.54 | 71.61 | 64.48 | 53.36 | 60.35 | 64.52 | 67.46 | 66.49 | 73.56 | 73.56 | 70.55 | 60.38 | 61.37 | 66.49 | 63.48 |      |      |      | 64.7          |      |
| Bennettsville    | 46.20 | 72.30 | 73.34 | 72.39 | 73.43 | 65.42 | 62.37 | 62.37 | 58.49 | 61.38 | 61.38 | 62.45 | 62.45 | 63.43 | 78.51 | 77.56 | 65.32 | 55.31 | 60.36 | 69.41 | 78.43 | 77.50 | 84.54 | 70.64 | 65.34 | 65.31 | 66.36 | 67.38 | 70.38 |      |      |      | 68.4          |      |
| Blackville       | 45.14 | 55.19 | 60.30 | 68.30 | 70.35 | 73.42 | 70.30 | 70.30 | 65.31 | 68.43 | 61.38 | 62.45 | 63.43 | 68.44 | 78.51 | 77.56 | 65.32 | 55.31 | 60.36 | 69.41 | 78.43 | 77.50 | 84.54 | 70.64 | 65.34 | 65.31 | 66.36 | 67.38 | 70.38 |      |      |      | 68.4          |      |
| Bowman           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |               |      |
| Camden (1)       | 43.15 | 58.17 | 60.31 | 69.36 | 66.45 | 68.50 | 59.37 | 59.37 | 55.33 | 68.44 | 65.43 | 54.33 | 61.37 | 60.47 | 73.55 | 75.58 | 65.51 | 52.30 | 59.32 | 61.45 | 64.39 | 72.46 | 68.52 | 74.61 | 72.54 | 59.32 | 62.32 | 66.41 | 62.37 |      |      |      | 63.2          |      |
| Charleston       | 46.24 | 64.38 | 64.38 | 66.42 | 66.45 | 71.57 | 67.43 | 67.43 | 60.36 | 68.44 | 64.45 | 60.40 | 59.40 | 65.44 | 68.54 | 70.59 | 67.49 | 54.37 | 57.40 | 68.42 | 69.51 | 71.59 | 75.59 | 70.49 | 65.40 | 65.40 | 61.41 | 67.43 | 65.40 |      |      |      | 64.6          |      |
| Charlotte, N. C. | 45.16 | 56.28 | 58.20 | 66.37 | 64.42 | 64.45 | 60.38 | 60.38 | 55.31 | 68.44 | 64.45 | 54.31 | 57.37 | 50.49 | 72.60 | 74.60 | 61.37 | 57.35 | 57.35 | 68.42 | 69.51 | 71.59 | 75.59 | 70.49 | 65.40 | 65.40 | 61.41 | 67.43 | 65.40 |      |      |      | 64.6          |      |
| Cheraw (1)*      | 40.17 | 59.18 | 61.32 | 69.32 | 66.35 | 70.35 | 68.38 | 68.38 | 62.31 | 72.37 | 65.32 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 | 61.33 |      |      |      | 63.8          |      |
| Clarks Hill      | 47.13 | 60.2  | 63.30 | 68.38 | 68.38 | 67.47 | 60.37 | 60.37 | 67.38 | 68.40 | 65.39 | 58.32 | 61.38 | 61.40 | 75.53 | 74.59 | 57.40 | 51.26 | 51.28 | 55.43 | 57.37 | 70.44 | 75.49 | 80.61 | 75.49 | 54.29 | 63.30 | 68.39 | 63.34 |      |      |      | 63.8          |      |
| Clemson College  | 42.14 | 56.24 | 59.22 | 64.35 | 63.36 | 62.47 | 59.43 | 59.43 | 53.20 | 55.42 | 50.42 | 57.32 | 58.44 | 61.34 | 67.54 | 63.60 | 60.54 | 54.24 | 50.38 | 57.38 | 65.40 | 66.40 | 64.53 | 71.60 | 61.57 | 56.35 | 59.27 | 64.43 | 59.35 |      |      |      | 59.3          |      |
| Columbia         | 44.17 | 61.30 | 62.30 | 70.42 | 67.43 | 67.43 | 60.37 | 60.37 | 57.33 | 64.44 | 65.48 | 58.34 | 61.39 | 62.31 | 73.51 | 75.56 | 62.39 | 52.32 | 61.32 | 63.47 | 67.42 | 74.49 | 73.53 | 75.63 | 68.44 | 54.34 | 64.43 | 67.44 | 61.39 |      |      |      | 64.0          |      |
| Conway*          | 65.20 | 60.25 | 59.24 | 72.26 | 71.34 | 75.38 | 68.41 | 68.41 | 68.36 | 67.47 | 65.47 | 69.34 | 65.48 | 70.43 | 74.51 | 74.56 | 70.60 | 53.33 | 60.37 | 69.39 | 73.43 | 78.05 | 70.60 | 75.63 | 56.34 | 64.36 | 64.43 | 67.44 | 61.36 |      |      |      | 67.0          |      |
| Darlington       | 63.22 | 70.31 | 61.37 | 68.38 | 77.41 | 61.37 | 68.38 | 61.47 | 67.31 | 61.47 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 | 67.31 |      |      |      | 67.0          |      |
| Dillon †         | 36.17 | 60.2  | 64.25 | 71.25 | 68.38 | 73.50 | 68.35 | 65.32 | 63.32 | 62.37 | 68.43 | 59.34 | 64.31 | 60.47 | 74.46 | 72.56 | 70.54 | 53.35 | 63.41 | 65.45 | 70.41 | 76.52 | 70.43 | 76.56 | 67.41 | 54.35 | 63.37 | 67.41 | 63.35 | 64.5 |      |      | 65.1          |      |
| Florence         | 43.18 | 60.21 | 64.26 | 74.32 | 73.36 | 73.51 | 60.40 | 58.34 | 68.34 | 68.34 | 62.46 | 59.34 | 67.35 | 64.38 | 76.51 | 76.54 | 68.57 | 48.35 | 59.40 | 63.35 | 67.42 | 64.45 | 74.53 | 72.55 | 73.61 | 54.35 | 71.30 | 69.37 | 62.40 |      |      |      | 65.5          |      |
| Georgetown       | 44.26 | 57.31 | 60.41 | 66.40 | 68.53 | 73.44 | 67.37 | 57.30 | 65.34 | 69.45 | 62.38 | 58.30 | 65.48 | 60.50 | 70.55 | 73.59 | 68.56 | 53.32 | 60.38 | 67.42 | 75.53 | 76.59 | 64.54 | 72.39 | 53.34 | 64.43 | 70.45 | 61.39 |       |      |      | 64.5 |               |      |
| Greenville*      | 46.15 | 61.16 | 64.2  | 68.34 | 63.33 | 65.44 | 54.27 | 55.31 | 54.27 | 68.41 | 53.41 | 57.30 | 59.33 | 60.43 | 68.53 | 69.54 | 59.41 | 53.37 | 53.38 | 50.43 | 65.37 | 68.42 | 69.52 | 73.53 | 68.40 | 55.30 | 60.40 | 65.40 | 62.32 |      |      |      | 60.1          |      |
| Greenwood*       | 44.14 | 57.16 | 60.38 | 66.39 | 64.37 | 60.30 | 56.40 | 57.31 | 61.41 | 66.44 | 58.36 | 54.31 | 57.31 | 60.40 | 72.55 | 72.56 | 59.57 | 52.38 | 59.40 | 60.34 | 63.38 | 70.38 | 69.46 | 75.52 | 61.59 | 52.31 | 59.31 | 55.31 | 60.35 |      |      |      | 60.3          |      |
| Heath Springs    | 36.15 | 42.28 | 60.28 | 61.42 | 68.42 | 69.43 | 67.34 | 60.34 | 60.34 | 66.44 | 58.36 | 59.31 | 61.47 | 61.40 | 67.53 | 73.56 | 72.58 | 61.33 | 59.40 | 62.32 | 60.38 | 68.46 | 73.46 | 69.54 | 62.50 | 60.32 | 58.28 | 63.41 | 60.38 |      |      |      | 61.5          |      |
| Jacksonboro      | 45.21 | 60.23 | 62.2  | 67.32 | 70.35 | 73.57 | 68.41 | 61.32 | 65.35 | 68.42 | 60.38 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 |      |      |      | 65.7          |      |
| Kingstree (†)    | 46.20 | 57.2  | 61.24 | 69.36 | 69.36 | 72.56 | 67.39 | 67.39 | 63.36 | 69.45 | 62.38 | 58.37 | 65.37 | 60.43 | 70.55 | 73.59 | 68.56 | 53.32 | 60.38 | 67.42 | 75.53 | 76.59 | 64.54 | 72.39 | 53.34 | 64.43 | 70.45 | 61.39 |       |      |      | 65.7 |               |      |
| Liberty          | 40.12 | 59.2  | 58.22 | 68.37 | 66.41 | 60.47 | 60.47 | 58.48 | 54.27 | 48.41 | 53.41 | 57.30 | 59.33 | 60.43 | 68.53 | 69.54 | 59.41 | 53.37 | 53.38 | 50.43 | 65.37 | 68.42 | 69.52 | 73.53 | 68.40 | 55.30 | 60.40 | 65.40 | 62.32 |      |      |      | 60.0          |      |
| Little Mountain  | 46.16 | 60.29 | 62.2  | 69.35 | 68.46 | 68.50 | 65.42 | 68.48 | 59.39 | 65.42 | 60.30 | 57.30 | 59.47 | 60.50 | 72.55 | 74.56 | 67.42 | 51.30 | 61.44 | 63.44 | 63.41 | 74.49 | 70.51 | 70.64 | 71.51 | 63.44 | 62.32 | 72.44 | 61.36 |      |      |      | 60.8          |      |
| Newberry         | 46.15 | 59.2  | 62.2  | 69.32 | 68.35 | 66.51 | 57.38 | 58.28 | 64.40 | 64.40 | 51.48 | 50.31 | 62.33 | 60.50 | 73.57 | 74.53 | 60.58 | 54.29 | 61.49 | 63.45 | 65.39 | 73.44 | 70.53 | 77.60 | 67.64 | 54.31 | 63.28 | 67.44 | 61.32 |      |      |      | 62.8          |      |
| Savannah         | 45.21 | 60.23 | 62.2  | 67.32 | 70.35 | 73.57 | 68.41 | 61.32 | 65.35 | 68.42 | 60.38 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 | 61.35 |      |      |      | 65.7          |      |
| St. George*      | 45.12 | 59.20 | 62.2  | 69.32 | 57.39 | 70.41 | 63.40 | 58.35 | 63.40 | 68.42 | 59.53 | 59.38 | 61.34 | 60.39 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 |      |      |      | 63.2          |      |
| St. Matthews*    | 44.14 | 59.24 | 61.28 | 68.36 | 67.42 | 67.42 | 62.38 | 62.38 | 59.35 | 67.42 | 62.38 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 | 60.13 |      |      |      | 64.4          |      |
| Sulphur          | 45.13 | 60.2  | 55.24 | 68.34 | 66.34 | 65.50 | 57.31 | 55.26 | 57.40 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 | 57.41 |      |      |      | 66.0          |      |
| Sutcliffe        | 46.24 | 61.33 | 64.39 | 69.42 | 68.46 | 76.58 | 70.48 | 55.40 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 |      |      |      | 66.0          |      |
| Savannah, Ga.    | 46.24 | 61.33 | 64.39 | 69.42 | 68.46 | 76.58 | 70.48 | 55.40 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 | 60.45 |      |      |      | 66.0          |      |
| Society Hill     | 40.24 | 55.20 | 58.27 | 64.31 | 64.39 | 67.40 | 59.35 | 54.41 | 65.57 | 65.57 | 66.46 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 | 60.38 |      |      |      | 62.4          |      |
| Spartanburg*     | 47.16 | 62.24 | 68.32 | 65.41 | 65.33 | 67.41 | 59.35 | 57.33 | 67.41 | 65.33 | 66.41 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 | 59.30 |      |      |      | 61.4          |      |
| Stoutburg        | 47.17 | 60.21 | 65.26 | 70.36 | 70.34 | 76.54 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |               |      |

\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs.

† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively;



TOTAL PRECIPITATION FOR FEBRUARY, 1969



## DAILY PRECIPITATION FOR SOUTH CAROLINA, FEBRUARY, 1909.

| STATIONS.             | DAY OF MONTH. |   |     |     |      |      |     |      |      |      |      |     |     |     |     |      |     |      |      |      |      |      |      |     |     |    |     |    |    |    |    | TOTAL. |      |
|-----------------------|---------------|---|-----|-----|------|------|-----|------|------|------|------|-----|-----|-----|-----|------|-----|------|------|------|------|------|------|-----|-----|----|-----|----|----|----|----|--------|------|
|                       | 1             | 2 | 3   | 4   | 5    | 6    | 7   | 8    | 9    | 10   | 11   | 12  | 13  | 14  | 15  | 16   | 17  | 18   | 19   | 20   | 21   | 22   | 23   | 24  | 25  | 26 | 27  | 28 | 29 | 30 | 31 |        |      |
| Aiken .....           |               |   |     |     |      | .68  |     |      |      | 1.80 |      |     | .78 |     |     | .20  |     |      | .55  |      |      | .20  | 1.20 | .50 |     |    |     |    |    |    |    | 5.91   |      |
| Allendale*.....       |               |   |     |     |      | .42  |     |      |      | 2.67 |      |     | .26 | .41 |     |      |     |      |      |      |      | .77  | .20  |     | .25 |    |     |    |    |    |    |        | 4.98 |
| Anderson.....         |               |   |     |     |      | .91  | .03 |      | .75  | 1.40 |      |     | .44 | .01 | .32 | .25  |     |      | .51  |      | .91  | .68  | .45  | .21 |     |    |     |    |    |    |    |        | 6.87 |
| Augusta, Ga.....      |               |   |     |     | .56  | .01  |     |      | .98  | 1.06 |      |     | .68 |     | .22 |      |     |      | .51  |      | .12  | 1.99 | .11  | .25 |     |    |     |    |    |    |    |        | 6.49 |
| Barksdale.....        |               |   |     |     |      | 1.02 |     |      |      | 2.16 |      |     | .42 |     | .20 |      |     |      | .50  |      | .57  | .90  |      | .31 |     |    |     |    |    |    |    |        | 6.08 |
| Batesburg*.....       |               |   |     |     | .05  |      |     |      |      | .78  |      |     | .14 | T.  | .31 |      |     |      | .88  |      |      |      | .14  |     |     |    |     |    |    |    |    |        | 2.30 |
| Beaufort.....         |               |   |     |     |      |      |     |      |      |      |      |     |     |     |     |      |     |      |      |      |      |      |      |     |     |    |     |    |    |    |    |        |      |
| Bennettsville.....    |               |   |     |     |      |      |     |      |      |      |      |     |     |     |     |      |     |      |      |      |      |      |      |     |     |    |     |    |    |    |    |        |      |
| Blackville*.....      |               |   |     |     | .40  |      |     |      | 1.38 |      |      | .54 | .10 |     | .20 |      |     | T.   | .70  |      | .05  | .50  |      | .22 |     |    |     |    |    |    |    |        | 4.15 |
| Blairs*.....          |               |   |     |     |      |      |     |      |      | 1.70 |      |     | .20 |     |     | .50  |     |      |      | .52  |      | .74  | .30  | .24 |     |    |     |    |    |    |    |        | 4.20 |
| Bowman.....           |               |   |     | .32 |      |      |     |      |      | 1.72 |      |     | .32 |     |     |      |     |      |      |      |      | T.   | .24  | .18 |     |    |     |    |    |    |    |        | 2.78 |
| Calhoun Falls*.....   |               |   |     |     | .09  |      |     |      |      | 2.35 |      |     | .52 | .17 | .62 |      |     | .21  | .42  |      | .91  | .94  | .35  | .24 |     |    |     |    |    |    |    |        | 7.42 |
| Camden (1)*.....      |               |   |     |     | .72  | .04  |     |      |      | 1.40 |      |     | .21 | T.  | .01 | .02  |     | .53  |      | T.   | .71  | .33  | .16  |     |     |    |     |    |    |    |    |        | 4.13 |
| Camden (2)*.....      |               |   |     |     | .82  |      |     |      |      | 1.68 |      |     | .30 |     | .18 |      |     |      | .80  |      | .14  | .86  | .08  | .22 |     |    |     |    |    |    |    |        | 5.38 |
| Catawba*.....         |               |   |     |     | .66  |      |     |      |      | 1.70 |      |     | .16 | T.  | .34 | .64  |     |      |      |      | .36  | .50  | .04  | .20 |     |    |     |    |    |    |    |        | 4.60 |
| Chappells*.....       |               |   |     |     | .74  |      |     |      |      | 2.42 |      |     | .30 | .16 | .26 |      |     |      | .28  |      | 1.06 | .58  |      |     |     |    |     |    |    |    |    |        | 5.80 |
| Charleston.....       |               |   |     |     | .10  |      |     |      |      | .24  |      |     | .47 | .11 | .34 | .13  |     |      | .32  |      | T.   | .15  |      |     |     |    |     |    |    |    |    |        | 1.86 |
| Charlotte, N.C.....   |               |   |     | .18 | .11  | .01  |     |      | 1.06 | .36  |      | T.  | .04 | .02 | .03 | .06  |     |      | .39  |      | .11  | .44  | .77  | .05 |     |    | .01 |    |    |    |    |        | 3.64 |
| Cheraw (1)*.....      |               |   |     |     | .51  |      |     | T.   | T.   | .89  |      |     | .28 | .03 | .13 | T.   |     |      | .53  |      | .43  | .35  |      | .17 |     |    |     |    |    |    |    |        | 3.32 |
| Cheraw (2)*.....      |               |   |     |     | .48  |      |     | T.   | T.   | .94  |      |     | .26 | .04 |     | .12  |     |      | .62  |      | .28  | .50  | .01  | .18 |     |    |     |    |    |    |    |        | 3.43 |
| Clarks Hill.....      |               |   |     |     | 1.00 |      |     | T.   | T.   | 2.10 |      |     | .60 | T.  | .29 |      |     |      | .35  |      | T.   | 1.56 | .23  |     |     |    |     |    |    |    |    |        | 6.13 |
| Clemson College.....  |               |   |     |     | .59  |      |     |      | .39  | 1.55 |      | .74 | .26 | .33 |     |      |     | .46  |      | 1.25 |      | .51  | .20  |     |     |    |     |    |    |    |    |        | 6.28 |
| Columbia.....         |               |   |     | .42 | .49  | T.   |     |      | .50  | .89  |      |     | .38 | T.  | .05 |      |     | .46  |      |      | .35  | .77  | .11  |     |     |    |     |    |    |    |    |        | 4.42 |
| Conway*.....          |               |   |     |     | .45  |      |     | T.   |      | 1.10 |      | T.  | .25 | .05 |     | .47  | .23 |      |      | 1.05 |      | .53  |      | .17 |     |    |     |    |    |    |    |        | 4.30 |
| Darlington.....       |               |   | .42 |     |      |      |     | 1.25 |      |      | .22  | .05 |     |     | .27 |      |     | .71  |      | .23  | .52  |      | .21  |     |     |    |     |    |    |    |    |        | 3.88 |
| Dillon.....           |               |   |     |     |      | .30  |     |      |      | 1.32 |      |     | .22 | .04 |     | .35  |     | 1.22 |      |      | .37  | .15  | .26  |     |     |    |     |    |    |    |    |        | 4.23 |
| Effingham*.....       |               |   |     |     | .40  | .50  |     |      |      | .90  |      |     | .50 |     | .60 |      |     |      | 2.00 |      | .25  | .90  |      | .50 |     |    |     |    |    |    |    |        | 6.55 |
| Ferguson*.....        |               |   |     |     | .60  |      |     |      |      | 1.60 |      |     | .20 | .20 | .20 | .20  |     |      | 1.40 |      |      | .70  |      |     |     |    |     |    |    |    |    |        | 4.50 |
| Florence*.....        |               |   |     |     | .54  |      |     | .05  |      | 1.24 |      |     | .32 | .11 | T.  | .46  |     |      | 1.60 |      | .15  | 2.16 |      | .46 |     |    |     |    |    |    |    |        | 7.09 |
| Georgetown.....       |               |   |     | .41 |      |      |     |      |      | .15  |      |     | .42 | .09 |     | .60  |     | .09  | .26  |      | .80  | .42  | .12  |     |     |    |     |    |    |    |    |        | 2.58 |
| Greenville*.....      |               |   |     |     | .35  | T.   |     |      |      | 1.90 |      |     | .16 |     | .17 |      |     |      | .09  | .27  | .89  |      | .54  |     |     |    |     |    |    |    |    |        | 4.99 |
| Greenwood*.....       |               |   |     |     | .25  |      |     |      |      | 2.19 |      |     | .25 |     | .96 |      |     |      |      |      | .40  | .46  | .35  | .13 |     |    |     |    |    |    |    |        | 5.26 |
| Heath Springs.....    |               |   |     | .39 |      | .01  |     |      | 1.26 | .30  |      |     | .25 |     | .17 |      |     | .37  |      | .09  | .40  | .46  | .35  | .13 |     |    |     |    |    |    |    |        | 4.09 |
| Jacksonboro.....      |               |   |     |     | .22  |      |     |      | T.   | .75  |      |     | .32 |     | .04 | .68  |     | .92  |      | 1.20 |      | .20  |      | .16 |     |    |     |    |    |    |    |        | 3.10 |
| Kingstree (1)*.....   |               |   |     |     | .05  |      |     |      | 1.60 |      |      |     | .11 | .20 | .23 | .01  |     |      | 1.20 |      | .20  |      | .20  |     |     |    |     |    |    |    |    |        | 4.36 |
| Kingstree (2)*.....   |               |   |     |     | .25  |      |     |      | 1.05 |      |      |     | T.  | .30 |     | T.   | .25 |      | 1.00 |      | .20  |      | .17  |     |     |    |     |    |    |    |    |        | 3.22 |
| Liberty.....          |               |   |     |     | .80  |      |     | T.   |      | 1.15 |      |     | .36 |     | .05 | .40  | .10 |      |      | .70  |      | .10  | .40  | .20 |     |    |     |    |    |    |    |        | 5.90 |
| Little Mountain.....  |               |   |     |     | .68  |      |     | T.   | 1.65 |      |      |     | .36 |     | .33 |      |     |      | .41  |      | 1.08 | .44  | .22  |     |     |    |     |    |    |    |    |        | 5.36 |
| Newberry.....         |               |   |     |     | .76  |      |     | T.   | 1.94 |      |      | .24 | .10 | T.  | .21 |      |     |      | .06  |      | 1.03 | .60  | .02  | .20 |     |    |     |    |    |    |    |        | 5.51 |
| Pelzer*.....          |               |   |     |     | .80  |      |     |      | 1.94 |      |      |     | .30 | .32 |     | .72  |     |      | .06  |      |      |      |      |     |     |    |     |    |    |    |    |        | 6.12 |
| Pinopolis.....        |               |   |     |     | .43  |      |     |      | 1.59 |      |      |     | .55 |     |     |      |     | 1.22 |      |      |      |      |      |     |     |    |     |    |    |    |    |        | 3.99 |
| St. George*.....      |               |   |     |     | .60  |      |     | 1.02 |      |      |      |     | .70 |     | .30 |      |     |      | 1.20 |      |      |      |      |     |     |    |     |    |    |    |    |        | 3.82 |
| St. Matthews*.....    |               |   |     |     | .02  |      |     |      | 2.40 |      |      |     | .40 |     |     |      |     |      | .51  |      |      | 1.10 |      | .22 |     |    |     |    |    |    |    |        | 4.65 |
| Saluda.....           |               |   |     |     | .75  |      |     |      | 2.05 |      |      |     | .40 |     |     |      |     |      | .52  |      |      | .51  | .45  | .17 |     |    |     |    |    |    |    |        | 4.85 |
| Santuc.....           |               |   |     |     | .80  |      |     | T.   |      | 21   | 1.32 |     | .16 | T.  |     | .38  |     |      | .39  |      | .29  | .49  | .09  |     |     |    |     |    |    |    |    |        | 4.53 |
| Savannah, Ga.....     |               |   |     |     | T.   |      |     |      | .29  |      |      |     | .05 | T.  | .46 | T.   |     |      | .45  |      |      | .02  | .06  |     |     |    |     |    |    |    |    |        | 1.33 |
| Savannah, Ga.....     |               |   |     |     |      |      |     |      |      |      |      |     |     |     |     |      |     |      | 1.78 |      |      |      | .37  |     | .63 |    |     |    |    |    |    |        | 4.97 |
| Smiths Mills*.....    |               |   |     |     |      |      |     |      |      |      | 1.38 |     | T.  | .21 | .08 | .52  |     |      | .60  | .30  |      |      | .40  |     |     |    |     |    |    |    |    |        | 3.31 |
| Society Hill.....     |               |   |     | .37 |      |      |     |      | 1.03 |      | .25  |     | .08 | .05 |     | .75  |     |      | T.   | .36  |      | .50  | .75  | .04 |     |    |     |    |    |    |    |        | 5.11 |
| Spartanburg*.....     |               |   |     |     | .76  |      |     | T.   |      | 1.82 |      |     | .08 | .05 |     | .75  |     |      |      |      |      |      |      |     |     |    |     |    |    |    |    |        |      |
| Stateburg.....        |               |   |     |     |      |      |     |      |      |      |      |     |     |     |     |      |     |      |      |      |      |      |      |     |     |    |     |    |    |    |    |        |      |
| Summerville.....      |               |   |     |     | .49  |      |     |      |      | .70  |      |     | .56 | T.  |     | .35  |     |      | .86  |      |      |      | .18  |     |     |    |     |    |    |    |    |        | 3.14 |
| Trenton.....          |               |   |     |     | 1.01 |      |     |      |      | 2.03 |      |     | .70 |     | .04 |      |     |      | .69  |      |      | .07  | .85  | .35 |     |    |     |    |    |    |    |        | 5.74 |
| Trial.....            |               |   |     |     | .60  |      |     |      |      | 1.65 |      |     | .50 | T.  | .20 |      |     | 1.70 |      | .02  |      |      | .18  |     |     |    |     |    |    |    |    |        | 4.85 |
| Walterboro.....       |               |   |     |     | .49  |      |     |      |      | .82  |      |     | .64 |     | .04 | .30  |     |      | 1.21 |      |      | .04  | .15  |     |     |    |     |    |    |    |    |        | 3.71 |
| Wilmington, N.C.....  |               |   |     |     | .49  |      |     |      |      | .63  |      |     | .36 |     | T.  | 1.31 |     |      | .30  |      |      |      |      |     |     |    |     |    |    |    |    |        | 3.30 |
| Winnabow.....         |               |   |     |     | .40  |      |     | T.   |      |      |      |     | .85 |     |     |      |     |      |      | .55  | .47  | T.   | .71  |     |     |    |     |    |    |    |    |        | 2.58 |
| Winthrop College..... |               |   |     |     | .68  | .03  |     |      | .04  | 1.46 |      |     | .09 | T.  |     | .25  |     |      | .42  |      | T.   | .54  | .32  | .08 |     |    |     |    |    |    |    |        | 3.01 |
| Yemassee*.....        |               |   |     |     | .33  |      |     |      |      | .56  |      |     |     |     |     | .62  |     |      | T.   | .71  |      | .04  | T.   |     |     |    |     |    |    |    |    |        | 2.38 |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.



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DS SO

U. S. DEPARTMENT OF AGRICULTURE

REPORT FOR MARCH, 1909.

SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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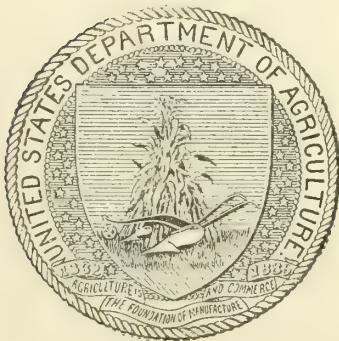
WILLIS L. MOORE

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BY

J. W. BAUER

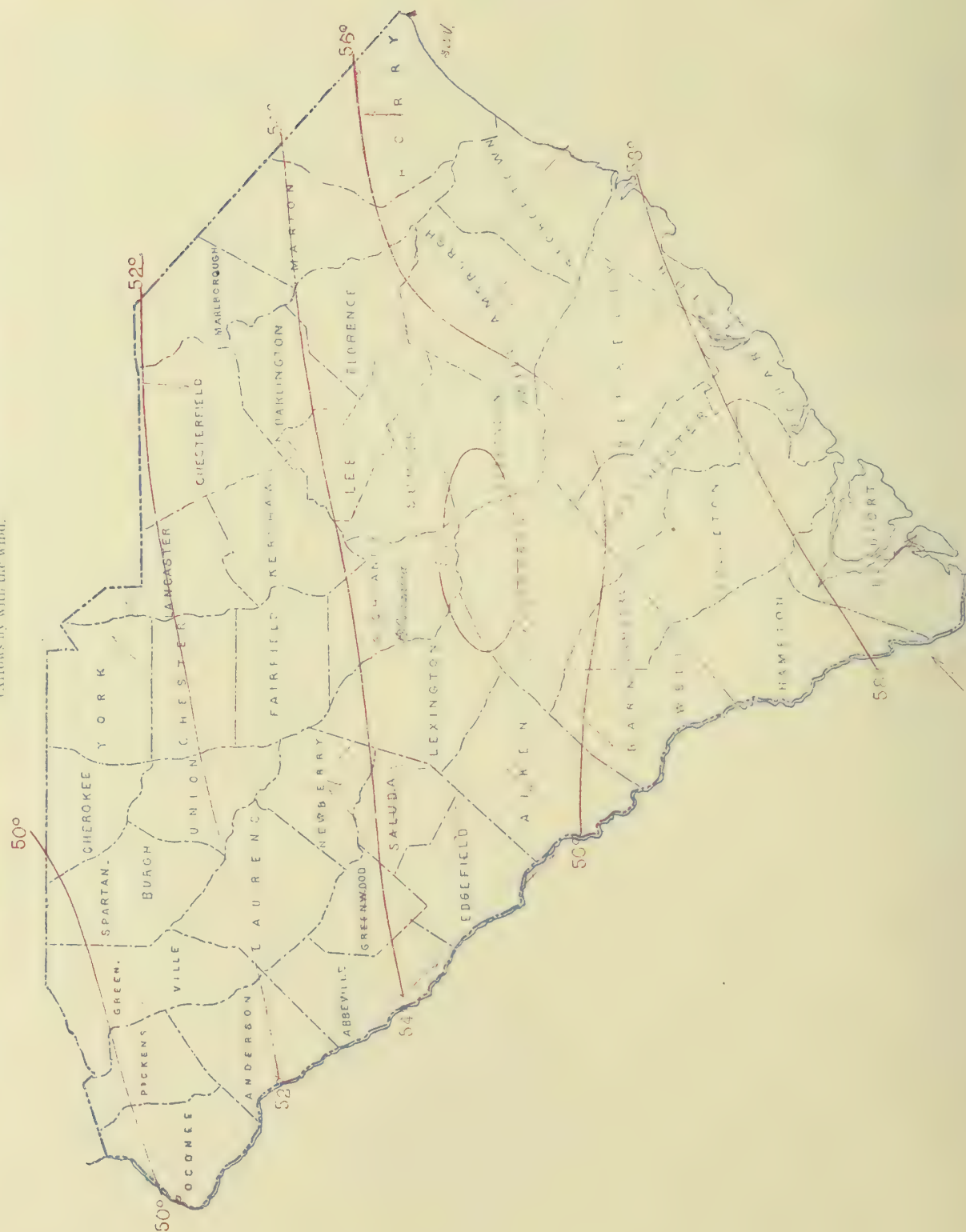
SECTION DIRECTOR



PITTSBURG, PA.  
WEATHER BUREAU OFFICE

APRIL 24, 1909.

1. Improving the road.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

Vol. XII.

COLUMBIA, S. C., MARCH, 1909.

No. 3.

## GENERAL SUMMARY.

The temperature was variable, with frequent and some severe changes. The extremes were well within previous limits, and the monthly mean was slightly below the normal. The number of rainy days was larger than usual, and the average precipitation was slightly above the normal. The monthly mean temperature for the same month was lower on six previous years. The lowest March mean was  $51.6^{\circ}$ , in 1906. Higher mean temperatures occurred in nine years. The highest was  $62^{\circ}$ , in 1907. The range in mean temperature for March is  $10.4^{\circ}$  in the last sixteen years. The highest March maximum was  $93^{\circ}$ , in 1896; the lowest minimum was  $10^{\circ}$ , in 1901. The average precipitation was greater than in twelve of the last sixteen years, having exceeded this month's amount only in 1895, 1903, and 1906. The largest amount, 5.92 inches, having been received in 1903. The largest local amount was 11.14 inches, at Batesburg, in 1903; the least was a trace, at Shaws Forks, in 1896.

The monthly mean temperature varied but little from the normal in any portion of the State, the departures having been generally less than a degree at a majority of stations. The highest temperatures were recorded in the southern portion, where they ranged in the eighties; in the extreme northwestern portion they ranged in the seventies, being below  $70^{\circ}$  at only one station. The 7th, 8th, 9th, and 28th were the warmest days. The highest temperature was recorded on the 9th at most stations. There were two cool periods of comparatively short duration. The lowest temperatures occurred on the 4th, 5th, 15th, and 16th. Frosts occurred on those days that were heavy to killing over the greater portion of the State to within a few miles of the coast, where only light frosts in spots were observed. Thirty-one of the forty stations recording temperature noted minimum temperatures of  $32^{\circ}$  or below. The mean of the daily minimum temperatures was the second lowest of record.

The precipitation was heaviest on the southern coast, where, over a small area, over 10 inches was reported. Nearly as much rain fell in the extreme western portion, while in the northeastern portion the rainfall was below 2 inches over a small area. The larger portion of the State received from 3 to 5 inches. The average number of rainy days was the second largest of record, having been exceeded only in 1897.

The wind direction was normal, and the wind movement slightly above normal. The percentage of sunshine was below the normal.

## TEMPERATURE.

The mean temperature was  $54.1^{\circ}$ , which is  $0.8^{\circ}$  below the normal. The highest local mean was  $58.7^{\circ}$  at Walterboro; the lowest was  $50^{\circ}$  at Greenville. The monthly extremes were  $90^{\circ}$

at Allendale on the 9th, and  $27^{\circ}$  at Bowman on the 4th and at Dillon and Heath Springs on the 5th, making the State range  $63^{\circ}$ . The greatest local monthly range was  $61^{\circ}$  at Bowman; the least was  $36^{\circ}$  at Charleston. The mean of the daily maximum temperatures was  $64.9^{\circ}$ , and of the daily minimum temperatures  $43.3^{\circ}$ , making the average daily range  $21.6^{\circ}$ .

## PRECIPITATION.

The average precipitation was 4.80 inches, which is 0.63 of an inch above the normal. The greatest local monthly amount was 10.06 inches at Jacksonboro; the least was 1.54 inches at Dillon. The greatest 24-hour rainfall was 4.41 inches at Yemassee on the 20th-21st. The average number of rainy days was 11, ranging from 7 days at Ferguson to 15 days at Cheraw and Summerville.

EXCESSIVE PRECIPITATION.—At Jacksonboro on the 21st, 4.30 inches in 24 hours; at Yemassee on the 20th-21st, 4.41 inches in 22 hours.

## WIND.

The prevailing wind was southwest at 12 stations, west and northwest at 9 stations each, north and northeast at 6 stations each, south at 4 stations, and east at 1 station.

## CLOUDINESS.

The average number of clear days was 14, of partly cloudy days 8, and of cloudy days 9.

## MISCELLANEOUS PHENOMENA.

LUNAR CORONA.—At Blackville on the 1st.

SOLAL HALOS.—At Camden on the 1st, 9th; at Saluda on the 1st.

LUNAR HALOS.—At Camden and Liberty on the 28th; at Columbia on the 4th, 28th; at Little Mountain on the 4th; at Winthrop College on the 6th, 8th, 11th, 29th.

HAIL.—At Blackville on the 24th; at Columbia on the 21st, 25th; at Greenville and Liberty on the 25th; at Little Mountain, Newberry, and Saluda on the 3d, 25th.

DENSE FOGS.—At Camden on the 3d, 7th, 13th; at Charleston on the 13th; at Columbia on the 3d, 7th; at Georgetown and Society Hill on the 7th; at Heath Springs on the 21st; at Liberty on the 14th; at Trial on the 7th, 16th, 18th; at Winthrop College on the 3d, 7th, 12th, 21st.

HIGH WINDS.—At Blackville, Bowman, Charleston, Columbia, Georgetown, Greenville, Greenwood, Heath Springs, Jacksonboro, Liberty, Newberry, Pelzer, Pinopolis, Santuc, Spartanburg, Trenton, and Trial on the 25th; at Camden on the 3d, 9th, 25th; at Clarks Hill and Saluda on the 3d, 25th; at Summerville and Winthrop College on the 10th, 25th; at Walhalla on the 25th, 28th.

KILLING FROSTS.—The latest killing frosts for the month occurred as follows, namely, at Anderson on the 26th; at Bowman, Camden, Columbia, Conway, Spartanburg, and Walhalla on the 16th; at Clarks Hill, Heath Springs, Newberry, and Saluda on the 18th; at Little Mountain and Winthrop College on the 31st.

THUNDERSTORMS.—Thunderstorms occurred on 12 days. There were four periods of maximum frequency, namely, on the 9th, 21st, 25th, and 28th, when from five to eight of the eighteen stations that recorded thunderstorms reported their occurrence. They were comparatively infrequent on the 1st, 2d, 3d, 6th, 10th, 20th, 24th, and 27th, when from one to three stations reported their occurrence.

## ERRATA.

The following correction should be made in the January, 1909, number of the Monthly Report, namely, on page 5, at Clarks Hill, the monthly mean temperature, 50.8, should be 49.4; on page 6, at Clarks Hill, the mean minimum, 39.3, should be 36.7.



Pressure and Wind Table, March, 1909.

| Stations.             | Barometric pressure. |          |       |         |       | Wind.           |                 |                   |            |       |
|-----------------------|----------------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.                | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |                      |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.....      | 29.95                | 30.31    | 11    | 29.26   | 25    | 5591            | 7.5             | 46                | nw.        | 25    |
| Charleston.....       | 29.95                | 30.31    | 11    | 29.42   | 25    | 8446            | 11.4            | 39                | s.         | 25    |
| Charlotte, N. C.....  | 29.94                | 30.37    | 12    | 29.29   | 25    | 6356            | 8.5             | 38                | w.         | 10    |
| Columbia.....         | 29.93                | 30.31    | 12    | 29.38   | 25    | 6198            | 8.3             | 40                | sw.        | 25    |
| Savannah, Ga.....     | 29.97                | 30.31    | 11    | 29.48   | 25    | 6212            | 8.3             | 37                | w.         | 3     |
| Wilmington, N. C..... | 29.94                | 30.37    | 12    | 29.35   | 25    | 7004            | 9.4             | 41                | sw.        | 25    |
| Averages or extremes. | 29.95                | 30.37    | 12    | 29.26   | 25    | 6634            | 8.9             | 46                | nw.        | 25    |

River Gage Readings, March, 1909.

| Stations.         | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|-------------------|--------------|-------|----------|-------|---------|-------|
| Blairs.....       | 14           | 2.0   | 7.0      | 15    | 1.2     | 24    |
| Calhoun Falls..   | 15           | 4.0   | 7.3      | 14    | 2.9     | 31    |
| Camden.....       | 24           | 11.9  | 17.8     | *11   | 8.8     | 8     |
| Catawba.....      | 11           | 4.3   | 7.4      | 27    | 3.0     | 20    |
| Chappells.....    | 14           | 8.2   | 14.7     | 11    | 4.8     | *2    |
| Cheraw.....       | 27           | 6.5   | 12.3     | 28    | 3.9     | 21    |
| Columbia.....     | 15           | 4.2   | 9.4      | 11    | 2.5     | 7     |
| Conway.....       | 7            | 4.2   | 5.3      | *2    | 2.6     | 31    |
| Effingham.....    | 12           | 7.8   | 9.0      | *1    | 6.5     | *24   |
| Ferguson.....     | 12           | 13.0  | 13.6     | *17   | 12.5    | *9    |
| Kingstree.....    | 12           | 5.7   | 6.3      | *1    | 5.0     | *13   |
| Mt. Holly, N. C.  | 15           | 2.2   | 3.0      | *13   | 2.0     | *1    |
| Pelzer.....       | 7            | 5.2   | 6.8      | 14    | 4.6     | *3    |
| Rimini.....       | 12           | 13.0  | 14.2     | 1     | 12.0    | *8    |
| Smiths Mills..... | 16           | 10.4  | 12.3     | 5     | 7.6     | 29    |

\* On other dates also.

## REMARKS BY OBSERVERS.

AIKEN.—A severe storm occurred on the morning of the 25th that blew down a large number of tall pine trees in this vicinity; the wind was from the southwest.—C. F. McGAHAN, M. D.

BEAUFORT.—The month was exceptionally rainy, nearly double the normal amount of rain having fallen. The cloudiness was above the average. The wind direction was variable and the wind movement greater than usual.—Miss LILLIAN H. RICE.

BOWMAN.—An unusually large portion of the precipitation occurred at night. The streams averaged normal flow thruout the month.—B. O. EVANS.

GREENWOOD.—On the morning of the 25th, between 12:30 and 1 a. m., a tornado occurred, killing one man and destroying about \$5,000 worth of property on the outskirts of Greenwood.—M. M. CALHOUN.

LIBERTY.—The month was wet and windy, with frequent frosts. Peach trees bloomed thruout the month and escaped serious injury from the weather conditions.—JOHN T. BOGGS.

NEWBERRY.—A severe storm occurred about 2 a. m. of the 25th, tornadic in character, that blew down one house and did considerable damage otherwise.—W. G. PETERSON.

SANTUC.—There was no very cold period during the month; heavy frosts occurred on the 5th and 16th, but light winds prevented killing frost on those days. A severe storm occurred on the morning of the 25th, during which the winds were tornadic in character.—E. W. JETER.

SUMMERVILLE.—The mean relative humidity for the month was 63 per cent. The 3d, 10th, 24th, and 25th were windy days.—Miss E. H. GADSDEN.

TRENTON.—A severe wind, thunder, and rain storm occurred at 2:30 a. m. of the 25th. The precipitation since January 1st is 0.99 of an inch above the normal for the same period.—C. A. LONG.

## CLIMATOLOGY OF YEMASSEE, S. C.

## Temperature.

| Year.  | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|--------|------|------|------|------|------|-------|-------|------|-------|------|------|------|-------|
| 1895.. |      |      |      |      |      |       | 78    | 77   | 64    | 55   |      |      |       |
| 1896.. | 47   | 47   | 56   | 68   | 78   | 80    | 83    | 82   | 76    | 65   | 60   | 46   | 64.2  |
| 1897.. | 47   | 54   | 61   | 65   | 72   | 82    | 82    | 81   | 74    | 68   | 58   | 50   | 64.5  |
| 1898.. | 53   | 48   | 62   | 60   | 75   | 81    | 82    | 81   | 78    | 64   | 54   | 48   | 65.7  |
| 1899.. | 47   | 48   | 59   | 62   | 76   | 81    | 83    | 83   | 76    | 67   | 57   | 48   | 65.5  |
| 1900.. | 48   | 47   | 55   | 65   | 74   | 81    | 84    | 85   | 79    | 69   | 58   |      |       |
| 1901.. | 48   | 46   | 54   | 58   | 74   | 79    | 83    | 81   | 76    | 64   | 51   | 46   | 63.2  |
| 1902.. | 44   | 43   | 56   | 62   | 76   | 80    | 84    | 80   | 74    | 66   | 61   | 49   | 64.6  |
| 1903.. | 47   | 52   | 64   | 63   | 71   | 76    | 80    | 81   | 74    | 64   | 53   | 43   | 64.2  |
| 1904.. | 44   | 49   | 60   | 62   | 71   | 77    | 80    | 78   | 75    | 64   | 53   | 48   | 63.4  |
| 1905.. | 44   | 44   | 60   | 66   | 75   | 79    | 81    | 78   | 77    | 65   | 56   | 45   | 64.1  |
| 1906.. | 49   | 48   | 54   | 65   | 70   | 79    | 79    | 80   | 77    | 62   | 54   | 49   | 63.8  |
| 1907.. | 55   | 49   | 65   | 57   | 70   | 76    | 81    | 79   | 76    | 60   | 54   | 49   | 64.3  |
| 1908.. | 46   | 49   | 64   | 68   | 73   | 77    | 80    | 79   | 72    | 62   | 57   | 52   | 65.0  |
| M'ns   | 47.5 | 48.1 | 59.3 | 63.0 | 73.4 | 79.1  | 81.6  | 80.5 | 75.8  | 64.6 | 55.9 | 47.8 | 64.6  |

## Precipitation.

| Year.  | Jan. | Feb.  | Mar. | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l |
|--------|------|-------|------|------|------|-------|-------|-------|-------|------|------|------|-------|
| 1882.. |      |       |      |      |      |       | 6.94  | 5.24  | 1.37  |      |      |      |       |
| 1883.. |      |       |      | 1.52 | 7.82 | 3.99  | 2.54  | 11.17 | 2.80  | 0.57 |      |      |       |
| 1884.. |      |       |      | 5.18 | 5.68 | 5.55  | 6.88  | 6.61  | 6.01  | 0.22 |      |      |       |
| 1885.. |      |       |      |      | 5.67 | 6.20  | 8.74  | 1.47  | 7.37  | 3.80 |      |      |       |
| 1886.. |      |       |      | 2.00 | 1.33 | 14.49 | 4.22  |       | 3.75  | 0.02 |      |      |       |
| 1887.. |      |       |      |      | 4.41 | 2.19  | 12.03 | 5.24  | 0.65  | 3.70 |      |      |       |
| 88-94  |      |       |      |      |      |       |       |       |       |      |      |      |       |
| 1895.. | 2.28 | 5.19  | 2.96 | 0.19 | 2.37 | 5.11  | 5.98  | 6.83  | 1.77  | 1.47 | 1.83 | 5.91 | 41.79 |
| 1896.. | 1.16 | 10.20 | 5.06 | 2.15 | 1.07 | 5.57  | 7.57  | 5.25  | 3.37  | 4.54 | 0.27 | 2.64 | 48.85 |
| 1897.. | 0.19 | 0.90  | 1.54 | 7.29 | 1.33 | 3.03  | 6.80  | 10.35 | 7.93  | 1.08 | 5.93 | 4.81 | 52.08 |
| 1898.. | 4.44 | 6.01  | 2.38 | 2.07 | 2.87 | 5.04  | 5.28  | 7.55  | 1.19  | 6.13 | 2.27 | 1.02 | 46.16 |
| 1900.. | 2.89 | 1.86  | 4.10 | 3.26 | 3.78 | 5.46  | 4.61  | 5.55  | 3.53  | 2.86 | 2.31 | 6.00 | 46.30 |
| 1901.. | 2.86 | 2.58  | 2.27 | 3.45 | 3.56 | 9.34  | 4.64  | 5.11  | 1.36  | 0.89 | 0.83 | 1.49 | 38.38 |
| 1902.. | 0.42 | 2.38  | 3.93 | 1.27 | 2.04 | 2.61  | 9.62  | 7.49  | 6.29  | 4.05 | 2.08 | 5.62 | 47.80 |
| 1903.. | 3.78 | 3.14  | 4.97 | 1.90 | 4.50 | 10.86 | 5.68  | 10.58 | 9.46  | 2.16 | 2.91 | 2.26 | 62.20 |
| 1904.. | 4.65 | 4.77  | 3.26 | 0.93 | 1.94 | 2.53  | 8.81  | 7.53  | 1.86  | 1.07 | 3.02 | 1.28 | 41.65 |
| 1905.. | 1.83 | 3.90  | 3.76 | 3.75 | 6.70 | 3.20  | 6.09  | 4.77  | 3.80  | 2.80 | 1.61 | 5.43 | 47.73 |
| 1906.. | 5.03 | 3.07  | 4.17 | 1.20 | 4.63 | 12.64 | 9.90  | 4.25  | 3.46  | 5.19 | 0.53 | 2.99 | 57.96 |
| 1907.. | 1.37 | 2.10  | 0.80 | 4.05 | 4.70 | 6.32  | 8.94  | 5.02  | 9.35  | 2.10 | 1.61 | 7.74 | 54.14 |
| 1908.. | 3.67 | 6.66  | 4.30 | 5.70 | 5.45 | 8.16  | 5.14  | 3.16  | 3.55  | 4.48 | 1.02 | 1.45 | 52.74 |
| M'ns   | 2.66 | 4.06  | 3.35 | 2.87 | 3.84 | 6.24  | 6.60  | 7.02  | 4.05  | 2.60 | 2.06 | 3.66 | 49.01 |

## Extremes of Temperature and Precipitation.

| Month.         | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|----------------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|                | Highest monthly mean. | Year. | Lowest monthly mean. | Year. | Greatest monthly. | Year. | Least monthly. | Year. |
| January.....   | 55                    | 1907  | 44                   | *1902 | 5.03              | 1906  | 0.19           | 1898  |
| February.....  | 54                    | 1897  | 43                   | *1902 | 10.20             | 1897  | 0.00           | 1898  |
| March.....     | 65                    | 1907  | 54                   | *1901 | 5.06              | 1897  | 0.80           | 1907  |
| April.....     | 68                    | *1896 | 57                   | *1907 | 7.29              | 1898  | 0.19           | 1896  |
| May.....       | 78                    | 1896  | 70                   | *1906 | 7.82              | 1883  | 1.07           | 1897  |
| June.....      | 82                    | 1897  | 76                   | 1903  | 14.49             | 1886  | 2.19           | 1887  |
| July.....      | 84                    | *1900 | 79                   | 1906  | 12.03             | 1887  | 2.54           | 1883  |
| August.....    | 85                    | 1900  | 78                   | *1895 | 11.17             | 1883  | 1.47           | 1885  |
| September..... | 79                    | 1900  | 72                   | 1908  | 9.46              | 1903  | 1.19           | 1899  |
| October.....   | 69                    | 1900  | 60                   | 1907  | 6.13              | 1899  | 0.02           | 1886  |
| November.....  | 61                    | 1902  | 51                   | 1901  | 5.93              | 1898  | 0.27           | 1897  |
| December.....  | 52                    | 1908  | 43                   | 1903  | 7.74              | 1907  | 1.02           | 1899  |

\* Other years also.

## COMPARATIVE MARCH DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |                 |                |                  | Number rainy days. | Prevailing wind direction |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|-----------------|----------------|------------------|--------------------|---------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                 | Least Monthly. |                  |                    |                           |
|           |              |               |               |          |          |                | Amount.           | Place.          | Amount.        | Place.           |                    |                           |
| 1894..... | 59.3         | 70.0          | 48.6          | 90       | 15       | 2.08           | 3.49              | Pinopolis.      | 0.71           | Little Mountain. | 7                  | sw.                       |
| 1895..... | 53.5         | 63.1          | 43.7          | 90       | 24       | 5.71           | 7.64              | Trenton.        | 3.66           | Kingstree.       | 11                 | sw.                       |
| 1896..... | 53.1         | 64.5          | 51.5          | 93       | 19       | 2.12           | 4.19              | Allendale.      | T.             | Shaws Fork.      | 5                  | sw.                       |
| 1897..... | 56.4         | 65.5          | 47.3          | 92       | 21       | 4.54           | 7.81              | Gillisonville.  | 2.15           | Conway.          | 12                 | sw.                       |
| 1898..... | 59.1         | 68.8          | 49.4          | 92       | 22       | 2.99           | 5.38              | Trenton.        | 1.36           | Allendale.       | 7                  | ne.                       |
| 1899..... | 55.2         | 66.3          | 44.0          | 89       | 12       | 3.89           | 9.10              | Central.        | 1.51           | Beaufort.        | 9                  | sw.                       |
| 1900..... | 51.6         | 62.6          | 40.6          | 79       | 22       | 4.22           | 7.58              | Greenville.     | 0.98           | Pinopolis.       | 9                  | sw.                       |
| 1901..... | 53.4         | 64.9          | 41.9          | 86       | 10       | 4.36           | 8.64              | Greenville.*    | 2.27           | Pinopolis.†      | 8                  | sw.                       |
| 1902..... | 54.0         | 65.1          | 43.0          | 86       | 19       | 4.08           | 7.19              | Trenton.        | 1.90           | Darlington.      | 10                 | sw.                       |
| 1903..... | 60.4         | 69.4          | 51.4          | 84       | 26       | 5.92           | 11.14             | Batesburg.      | 1.53           | Bowman.          | 10                 | ne.                       |
| 1904..... | 56.2         | 69.7          | 44.4          | 87       | 23       | 3.42           | 5.52              | Walhalla.       | 1.54           | Charleston.      | 9                  | ne.                       |
| 1905..... | 57.8         | 69.2          | 46.5          | 93       | 28       | 2.15           | 3.96              | Cheraw.         | 0.89           | Anderson.        | 6                  | ne.                       |
| 1906..... | 51.6         | 62.4          | 40.8          | 82       | 18       | 5.34           | 10.25             | Walhalla.       | 3.26           | St. Matthews.    | 10                 | w.                        |
| 1907..... | 62.0         | 74.3          | 49.7          | 99       | 20       | 1.57           | 3.07              | Clemson College | 0.59           | Blackville.      | 5                  | sw.                       |
| 1908..... | 61.4         | 72.6          | 50.2          | 90       | 29       | 4.56           | 7.00              | Effingham.      | 1.75           | Georgetown.      | 8                  | sw.                       |
| 1909..... | 54.1         | 64.9          | 43.3          | 90       | 27       | 4.80           | 10.06             | Jacksonboro.    | 1.54           | Dillon.          | 11                 | sw.                       |

\*Also Liberty. †Also Yemassee.



CLIMATOLOGICAL DATA FOR THE MONTH OF MARCH, 1909.

| STATIONS.                      | Counties.         | Elevation<br>feet. | Length of<br>record<br>years. | Temperature—in degrees Fahrenheit. |                               |          |       |         |       | Precipitation—in inches. |        |                               |                          |                              |                       | Sky                   |                               |                        |       | Prevailing<br>direction<br>of wind. | Observers. |
|--------------------------------|-------------------|--------------------|-------------------------------|------------------------------------|-------------------------------|----------|-------|---------|-------|--------------------------|--------|-------------------------------|--------------------------|------------------------------|-----------------------|-----------------------|-------------------------------|------------------------|-------|-------------------------------------|------------|
|                                |                   |                    |                               | Mean.                              | Departure from<br>the normal. | Highest. | Late. | Lowest. | Date. | Greatest daily<br>range. | Total. | Departure from<br>the normal. | Greatest in 24<br>hours. | Total snowfall<br>in melted. | Number rainy<br>days. | Number clear<br>days. | Number partly<br>cloudy days. | Number cloudy<br>days. |       |                                     |            |
|                                |                   |                    |                               |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |       |                                     |            |
| Aiken.....                     | Aiken.....        | 505                | 25                            | 55.2                               | +0.3                          | 81       | 9     | 42      | *10   | 11                       | 5.65   | +1.48                         | 2.25                     | 0                            | 9                     | 24                    | 0                             | 1                      | sw.   | C. F. McGahan, M. D.                |            |
| Allendale°                     | Barnwell.....     | 186                | 21                            | 50.8                               | 0.2                           | 90       | 9     | 44      | 16    | 49                       | 8.81   | +2.20                         | 2.00                     | 0                            | 8                     | 13                    | 0                             | 12                     | ..... | A. R. Hers.                         |            |
| Anderson.....                  | Anderson.....     | 704                | 8                             | 51.5                               | -0.7                          | 77       | 9     | 40      | 26    | 39                       | 6.40   | -1.00                         | 1.38                     | 0                            | 12                    | 08                    | 1                             | 12                     | w.    | H. H. Russell.                      |            |
| Augusta, Ga.                   | Richmond.....     | 180                | 38                            | 55.8                               | 0.1                           | 84       | 9     | 34      | 16    | 39                       | 5.64   | -0.77                         | 2.43                     | 0                            | 10                    | 11                    | 9                             | 11                     | nw.   | U. S. Weather Bureau                |            |
| Barksdale.....                 | Laurens.....      | 134                | 8                             | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | J. T. Garrett.                      |            |
| Batesburg°                     | Lexington.....    | 050                | 21                            | 51.5                               | -3.4                          | 76       | 9     | 31      | 16    | 34                       | 4.85   | -0.85                         | 1.10                     | 0                            | 9                     | 13                    | 0                             | 12                     | s.    | E. J. Hite.                         |            |
| Beaufort.....                  | Beaufort.....     | 20                 | 23                            | 58.2                               | -0.6                          | 78       | 28    | 31      | 16    | 27                       | 6.71   | +3.55                         | 2.12                     | 0                            | 10                    | 10                    | 13                            | 2                      | nw.   | Miss Lillian H. Rice.               |            |
| Bennettsville.....             | Marlboro.....     | 151                | 8                             | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | C. S. McCall.                       |            |
| Blackville°                    | Barnwell.....     | 296                | 21                            | 50.4                               | 0.7                           | 88       | 8     | 42      | 15    | 38                       | 4.49   | -0.92                         | 1.15                     | 0                            | 11                    | 10                    | 12                            | 9                      | ne.   | Miss M. E. Lange.                   |            |
| Blairs°                        | Fairfield.....    | 243                | 4                             | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | T. S. McMeekin.                     |            |
| Bowman°                        | Orangeburg.....   | 160                | 8                             | 50.5                               | .....                         | 87       | 8     | 27      | 4     | 31                       | 5.89   | .....                         | 1.42                     | 0                            | 10                    | 16                    | 9                             | 6                      | w.    | B. O. Evans.                        |            |
| Calhoun Falls°                 | Abbeville.....    | 508                | 10                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | P. J. Pfeifer.                      |            |
| Camden (1)°                    | Kershaw.....      | 3                  | 3                             | 53.4                               | .....                         | 83       | 9     | 31      | 5     | 41                       | 1.51   | .....                         | 1.10                     | 0                            | 10                    | 17                    | 4                             | 10                     | w.    | J. B. Mickle.                       |            |
| Camden (2)°                    | Kershaw.....      | 222                | 43                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | W. C. Brown.                        |            |
| Catawba°                       | York.....         | 502                | 4                             | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | Jas. C. Faris.                      |            |
| Chappell°                      | Newberry.....     | 402                | 4                             | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | M. C. Rivers.                       |            |
| Charleston.....                | Charleston.....   | 48                 | 39                            | 58.1                               | +0.9                          | 77       | 7     | 41      | 4     | 26                       | 5.84   | 2.17                          | 1.97                     | 0                            | 13                    | 12                    | 8                             | 11                     | sw.   | U. S. Weather Bureau.               |            |
| Charlotte, N. C.               | Mecklenburg.....  | 773                | 31                            | 49.8                               | -1.0                          | 78       | 9     | 32      | 15    | 30                       | 2.86   | 1.71                          | 0.69                     | 0                            | 13                    | 11                    | 7                             | 13                     | s.    | U. S. Weather Bureau.               |            |
| Cheraw (1)°                    | Chesterfield..... | 144                | 21                            | 51.8                               | -1.7                          | 81       | 9     | 30      | *5    | 33                       | 3.38   | -0.33                         | 0.72                     | 0                            | 11                    | 12                    | 1                             | 18                     | n.    | W. R. Godfrey.                      |            |
| Cheraw (2)°                    | Chesterfield..... | 144                | 16                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | Jno. H. Powe.                       |            |
| Clarks Hill.....               | Edgefield.....    | 456                | 7                             | 53.2                               | .....                         | 83       | 9     | 29      | 16    | 33                       | 6.10   | .....                         | 2.23                     | 0                            | 10                    | 12                    | 14                            | 5                      | ..... | Wm. S. Middleton.                   |            |
| Clemson College.....           | Oconee.....       | 850                | 18                            | 51.8                               | 0.5                           | 70       | 9     | 30      | 16    | 31                       | 6.28   | +1.56                         | 1.72                     | 0                            | 9                     | 18                    | 5                             | 8                      | w.    | Prof. Jno. N. Hook.                 |            |
| Columbia.....                  | Richland.....     | 351                | 22                            | 54.4                               | +0.4                          | 83       | 9     | 32      | 10    | 30                       | 3.47   | -0.23                         | 0.66                     | 0                            | 12                    | 8                     | 11                            | 12                     | sw.   | U. S. Weather Bureau.               |            |
| Conway°                        | Horry.....        | 25                 | 17                            | 56.2                               | -1.1                          | 80       | 9     | 31      | 5     | 30                       | 2.33   | -1.15                         | 0.69                     | 0                            | 9                     | 11                    | 1                             | 13                     | s.    | P. C. Quattlebaum.                  |            |
| Darlington.....                | Darlington.....   | 175                | 14                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | D. C. McCall.                       |            |
| Dillon.....                    | Marion.....       | 100                | 5                             | 53.8                               | .....                         | 84       | 9     | 27      | 5     | 40                       | 1.54   | -2.43                         | 0.32                     | 0                            | 9                     | .....                 | .....                         | .....                  | ..... | A. E. Rowell.                       |            |
| Effingham°                     | Florence.....     | 106                | 17                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | H. B. McCall.                       |            |
| Ferguson°                      | Berkeley.....     | 51                 | 2                             | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | D. B. Gilliland, Jr.                |            |
| Florence°                      | Florence.....     | 136                | 21                            | 55.6                               | +0.3                          | 80       | 9     | 30      | 5     | 38                       | 2.09   | 0.56                          | 1.10                     | 0                            | 11                    | 14                    | 5                             | 12                     | ne.   | H. K. Gilbert.                      |            |
| Georgetown.....                | Georgetown.....   | 12                 | 16                            | 56.8                               | -0.8                          | 78       | *9    | 34      | 4     | 33                       | 3.41   | +0.07                         | 1.06                     | 0                            | 8                     | 14                    | 3                             | 14                     | nw.   | Wm. Alden James.                    |            |
| Greenville°                    | Greenville.....   | 989                | 17                            | 50.0                               | +0.5                          | 74       | 28    | 30      | *5    | 37                       | 6.14   | +0.64                         | 1.65                     | 0                            | 10                    | 18                    | 3                             | 10                     | ne.   | Mrs. S. A. Crittenden.              |            |
| Greenwood (1)°                 | Greenwood.....    | 671                | 21                            | 51.4                               | -1.4                          | 79       | 9     | 31      | *5    | 34                       | 6.10   | +2.41                         | 1.91                     | 0                            | 10                    | 20                    | 0                             | 11                     | w.    | M. M. Calhoun.                      |            |
| Greenwood (2)°                 | Lancaster.....    | 568                | 8                             | 52.6                               | .....                         | 81       | 9     | 27      | 5     | 30                       | 3.27   | .....                         | 1.01                     | 0                            | 13                    | 16                    | 7                             | 8                      | nw.   | J. A. Weaner.                       |            |
| Heath Springs.....             | Colleton.....     | 13                 | 1                             | 57.0                               | .....                         | 78       | *9    | 33      | 5     | 33                       | 10.06  | .....                         | 4.30                     | 0                            | 13                    | 11                    | 6                             | 11                     | sw.   | W. E. Haskell, jr.                  |            |
| Jacksonboro.....               | Williamsburg..... | 54                 | 21                            | 57.0                               | +0.1                          | 83       | 9     | 32      | *5    | 33                       | 3.84   | -0.59                         | 0.67                     | 0                            | 13                    | 17                    | 2                             | 12                     | n.    | J. A. Scott.                        |            |
| Kingstree (1)°                 | Williamsburg..... | 54                 | 15                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | A. O. Matthews.                     |            |
| Kingstree (2)°                 | Williamsburg..... | 54                 | 15                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | Jno. T. Boggs.                      |            |
| Liberty.....                   | Pickens.....      | 900                | 15                            | 51.4                               | -0.5                          | 72       | 9     | 29      | 16    | 31                       | 7.90   | +3.20                         | 2.40                     | 0                            | 11                    | 16                    | 8                             | 7                      | sw.   | J. M. Sease, M. D.                  |            |
| Little Mountain.....           | Newberry.....     | 711                | 10                            | 54.7                               | -0.8                          | 82       | 9     | 32      | *5    | 30                       | 4.71   | +0.99                         | 1.52                     | 0                            | 11                    | 17                    | 6                             | 8                      | nw.   | W. G. Peterson.                     |            |
| Newberry.....                  | Newberry.....     | 502                | 5                             | 52.8                               | -1.2                          | 82       | 9     | 29      | *5    | 32                       | 5.00   | +0.78                         | 1.82                     | 0                            | 14                    | 13                    | 5                             | 13                     | n.    | John M. Ward.                       |            |
| Pelzer°                        | Anderson.....     | 873                | 4                             | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | Miss E. P. Ravenel.                 |            |
| Pinopolis§                     | Berkeley.....     | 54                 | 16                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | G. T. Lewis.                        |            |
| St. George°                    | Dorchester.....   | 109                | 21                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | J. S. Wannamaker.                   |            |
| St. Matthews°                  | Calhoun.....      | 209                | 21                            | 53.1                               | -2.6                          | 82       | 9     | 32      | 16    | 35                       | 3.99   | +0.63                         | 0.72                     | 0                            | 12                    | 19                    | 0                             | 12                     | ..... | Alvin Etheridge.                    |            |
| Saluda.....                    | Saluda.....       | 530                | 7                             | 54.0                               | .....                         | 83       | 9     | 28      | 10    | 34                       | 4.82   | .....                         | 1.65                     | 0                            | 12                    | 19                    | 2                             | 9                      | w.    | E. W. Jeter.                        |            |
| Santee.....                    | Union.....        | 512                | 15                            | 51.2                               | 1.7                           | 81       | 9     | 29      | 16    | 31                       | 4.66   | +0.43                         | 1.06                     | 0                            | 11                    | 10                    | 0                             | 12                     | n.    | U. S. Weather Bureau.               |            |
| Savannah, Ga.                  | Chatham.....      | 71                 | 39                            | 59.7                               | +1.4                          | 80       | 7     | 41      | 5     | 27                       | 5.38   | -1.73                         | 2.48                     | 0                            | 12                    | 13                    | 8                             | 10                     | sw.   | W. G. Walker.                       |            |
| Smiths Mill°                   | Williamsburg..... | 62                 | 14                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | Major J. J. Lucas.                  |            |
| Society Hill.....              | Darlington.....   | 192                | 18                            | 53.2                               | 2.0                           | 80       | 9     | 32      | *4    | 31                       | 2.38   | -0.94                         | 0.68                     | 0                            | 11                    | 12                    | 5                             | 14                     | ne.   | F. P. Robinson.                     |            |
| Spartanburg°                   | Spartanburg.....  | 875                | 18                            | 50.4                               | -0.6                          | 77       | 9     | 28      | 10    | 34                       | 4.18   | 0.60                          | 0.76                     | 0                            | 11                    | 9                     | 1                             | 21                     | ..... | W. W. Anderson, M. D.               |            |
| Stateburg.....                 | Sumter.....       | 500                | 32                            | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                        | .....                 | .....                 | .....                         | .....                  | ..... | Miss E. H. Gadsden.                 |            |
| Summerville.....               | Dorchester.....   | 75                 | 12                            | 58.0                               | -0.8                          | 82       | *9    | 32      | *5    | 36                       | 5.16   | +2.05                         | 1.57                     | 0                            | 15                    | 10                    | 19                            | 2                      | sw.   | C. A. Long.                         |            |
| Trenton†                       | Edgefield.....    | 620                | 16                            | 52.4                               | 4.4                           | 80       | 9     | 31      | *4    | 40                       | 5.88   | +1.51                         | 1.74                     | 0                            | 14                    | 15                    | 12                            | 4                      | w.    | Etsell Gaillard.                    |            |
| Trial.....                     | Berkeley.....     | 85                 | 23                            | 55.7                               | -0.2                          | 79       | 10    | 28      | 5     | 34                       | 4.23   | -0.79                         | 1.51                     | 0                            | 12                    | 10                    | 12                            | 9                      | nw.   | N. L. Fant.                         |            |
| Walhalla.....                  | Oconee.....       | 1061               | 18                            | 50.6                               | 0.0                           | 69       | 28    | 31      | *15   | 32                       | 0.47   | +0.10                         | 2.30                     | 0                            | 8                     | 14                    | 0                             | 9                      | sw.   | J. A. Westerberg.                   |            |
| Walterboro.....                | Colleton.....     | 61                 | 5                             | 558.7                              | .....                         | 83       | 9     | 32      | 16    | 36                       | 6.10   | .....                         | 1.98                     | 0                            | 14                    | 15                    | 6                             | 10                     | ..... | U. S. Weather Bureau.               |            |
| Wilmington, N. C.              | New Hanover.....  | 78                 | 39                            | 53.9                               | +0.2                          | 75       | 9     | 33      | 5     | 25                       | 0.80   | 2.70                          | 0.23                     | 0                            | 9                     | 10                    | 15                            | 6                      | sw.   | John W. Seigler.                    |            |
| Windsboro.....                 | Fairfield.....    | 545                | 20                            | 52.7                               | -0.4                          | 80       | 9     | 31      | *16   | 24                       | 5.00   | +1.12                         | 1.45                     | 0                            | 11                    | 17                    | 11                            | 3                      | ne.   | E. R. Rivers.                       |            |
| Winthrop College               | York.....         | 600                | 10                            | 52.0                               | .....                         | 80       | 9     | 32      | 16    | 35                       | 3.58   | -0.55                         | 0.84                     | 0                            | 11                    | 18                    | 7                             | 6                      | sw.   | J. G. Hutson.                       |            |
| Yemassee°                      | Hampton.....      | 23                 | 14                            | 55.8                               | -2.5                          | 82       | 9     | 33      | 10    | 37                       | 7.45   | +4.10                         | 4.41                     | 0                            | 11                    | 17                    | 1                             | 13                     | ..... |                                     |            |
| Means, extremes and dates..... |                   |                    |                               | 54.1                               | 0.8                           | 90       | 9     | 27      | *4    | 40                       | 4.80   | +0.63                         | 4.41                     | T.                           | 11                    | 14                    | 8                             | 9                      | sw.   |                                     |            |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed non-registering thermometer not standard. \* On other dates also. a. Indicates 1 day missing; b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MARCH, 1909.

| STATIONS.                  | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Monthly mean. |       |        |      |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|--------|------|
|                            | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.  | Max.  | Min.          | Max.  |        |      |
| Aiken.....                 | 65.38 | 67.49 | 64.42 | 55.35 | 61.33 | 68.45 | 75.49 | 72.52 | 83.60 | 73.00 | 60.43 | 57.15 | 63.15 | 61.48 | 53.37 | 63.32 | 63.42 | 63.40 | 70.44 | 62.51 | 72.55 | 60.39 | 74.41 | 70.46 | 68.15 | 68.15 | 62.32 | 72.45 | 72.45 | 72.45 | 68.50 | 67.48         | 62.35 | 66.00  | 44.5 |
| Allendale*.....            | 70.38 | 68.43 | 69.48 | 55.38 | 65.37 | 60.41 | 80.40 | 75.41 | 77.52 | 81.62 | 55.42 | 57.41 | 70.46 | 61.53 | 56.42 | 60.31 | 61.38 | 71.30 | 76.43 | 61.38 | 75.39 | 65.40 | 75.39 | 65.43 | 70.46 | 74.47 | 68.15 | 67.38 | 60.15 | 72.45 | 69.55 | 67.48         | 62.35 | 66.00  | 44.8 |
| Anderson.....              | 62.35 | 65.45 | 60.41 | 52.47 | 58.32 | 60.41 | 80.40 | 75.41 | 77.52 | 81.62 | 55.42 | 57.41 | 70.46 | 61.53 | 56.42 | 60.31 | 61.38 | 71.30 | 76.43 | 61.38 | 75.39 | 65.40 | 75.39 | 65.43 | 70.46 | 74.47 | 68.15 | 67.38 | 60.15 | 72.45 | 69.55 | 67.48         | 62.35 | 66.00  | 44.8 |
| Anderson, Augusta, Ga..... | 65.38 | 68.51 | 64.42 | 54.38 | 60.39 | 69.45 | 75.53 | 73.53 | 84.60 | 74.00 | 62.54 | 54.15 | 64.50 | 63.49 | 53.39 | 63.33 | 64.49 | 73.36 | 72.43 | 64.54 | 74.46 | 62.41 | 68.43 | 70.19 | 68.44 | 70.19 | 61.37 | 72.48 | 74.36 | 66.19 | 66.19 | 62.30         | 65.90 | 45.8   |      |
| Barksdale.....             | 65.40 | 63.15 | 60.46 | 48.34 | 52.32 | 59.38 | 69.46 | 65.52 | 76.53 | 66.57 | 59.38 | 50.11 | 64.15 | 57.16 | 52.34 | 59.31 | 56.35 | 66.32 | 67.36 | 60.44 | 62.53 | 60.37 | 64.40 | 63.45 | 59.42 | 68.33 | 58.42 | 68.33 | 60.43 | 66.46 | 57.35 | 61.70         | 41.3  |        |      |
| Batesburg*.....            | 64.15 | 64.53 | 73.54 | 61.41 | 60.13 | 70.15 | 75.56 | 71.55 | 74.60 | 70.62 | 68.51 | 60.50 | 70.55 | 72.55 | 60.46 | 61.39 | 64.50 | 64.15 | 72.45 | 61.54 | 74.58 | 62.14 | 67.13 | 70.54 | 68.53 | 58.42 | 68.33 | 58.42 | 74.30 | 78.32 | 67.57 | 72.55         | 63.44 | 67.30  | 50.2 |
| Beaufort.....              | 69.42 | 67.45 | 59.35 | 64.33 | 70.10 | 80.49 | 74.32 | 88.50 | 63.13 | 60.44 | 54.15 | 64.15 | 65.55 | 55.39 | 65.32 | 66.38 | 67.44 | 76.44 | 67.19 | 77.53 | 60.40 | 74.44 | 71.47 | 70.47 | 64.14 | 64.14 | 71.40 | 78.10 | 71.51 | 66.50 | 67.37 | 66.42         | 68.90 | 43.9   |      |
| Bennettsville.....         | 70.31 | 71.50 | 60.35 | 55.27 | 63.32 | 70.35 | 70.35 | 80.48 | 87.55 | 76.38 | 70.43 | 60.45 | 65.55 | 64.54 | 58.40 | 66.38 | 67.35 | 75.38 | 72.43 | 73.50 | 77.49 | 72.14 | 70.47 | 68.43 | 64.14 | 64.14 | 71.40 | 78.10 | 71.51 | 66.50 | 67.37 | 66.42         | 68.90 | 43.9   |      |
| Bowman.....                | 64.36 | 61.17 | 64.44 | 51.35 | 57.31 | 63.40 | 71.50 | 65.52 | 83.52 | 74.59 | 65.40 | 53.43 | 60.47 | 64.51 | 53.35 | 60.32 | 61.42 | 61.36 | 68.43 | 66.54 | 60.41 | 59.37 | 60.36 | 60.43 | 64.48 | 64.48 | 59.33 | 64.48 | 74.33 | 73.54 | 68.17 | 61.54         | 60.94 | 63.40  | 43.2 |
| Camden (r).....            | 65.18 | 66.55 | 73.19 | 56.41 | 55.41 | 67.50 | 77.56 | 74.55 | 76.58 | 77.61 | 61.52 | 60.50 | 70.56 | 74.54 | 54.46 | 61.42 | 61.42 | 61.36 | 68.43 | 66.54 | 60.41 | 59.37 | 60.36 | 60.43 | 64.48 | 64.48 | 59.33 | 64.48 | 74.33 | 73.54 | 68.17 | 61.54         | 60.94 | 63.40  | 43.2 |
| Charleston.....            | 65.18 | 66.55 | 73.19 | 56.41 | 55.41 | 67.50 | 77.56 | 74.55 | 76.58 | 77.61 | 61.52 | 60.50 | 70.56 | 74.54 | 54.46 | 61.42 | 61.42 | 61.36 | 68.43 | 66.54 | 60.41 | 59.37 | 60.36 | 60.43 | 64.48 | 64.48 | 59.33 | 64.48 | 74.33 | 73.54 | 68.17 | 61.54         | 60.94 | 63.40  | 43.2 |
| Charlotte, N. C.....       | 65.18 | 66.55 | 73.19 | 56.41 | 55.41 | 67.50 | 77.56 | 74.55 | 76.58 | 77.61 | 61.52 | 60.50 | 70.56 | 74.54 | 54.46 | 61.42 | 61.42 | 61.36 | 68.43 | 66.54 | 60.41 | 59.37 | 60.36 | 60.43 | 64.48 | 64.48 | 59.33 | 64.48 | 74.33 | 73.54 | 68.17 | 61.54         | 60.94 | 63.40  | 43.2 |
| Cheraw (r)*.....           | 63.36 | 61.41 | 64.43 | 52.38 | 56.30 | 61.37 | 69.41 | 63.46 | 81.48 | 70.60 | 60.42 | 52.45 | 63.46 | 65.49 | 52.35 | 60.30 | 62.42 | 63.37 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44 | 67.44         | 67.44 | 40.7   |      |
| Clarks Hill.....           | 65.35 | 67.44 | 62.42 | 53.32 | 60.34 | 68.41 | 71.47 | 74.47 | 83.54 | 78.57 | 64.38 | 54.11 | 63.44 | 65.49 | 51.34 | 53.31 | 62.42 | 64.31 | 72.40 | 69.49 | 72.45 | 63.36 | 69.39 | 70.45 | 62.32 | 62.32 | 62.32 | 72.43 | 73.51 | 68.45 | 63.40 | 63.36         | 65.50 | 41.0   |      |
| Clemson College.....       | 61.34 | 64.44 | 58.40 | 50.37 | 56.34 | 62.43 | 67.44 | 69.41 | 70.52 | 65.55 | 56.35 | 56.15 | 59.53 | 59.34 | 61.30 | 64.46 | 58.30 | 59.30 | 64.50 | 62.49 | 60.11 | 60.39 | 61.42 | 54.43 | 54.43 | 61.35 | 67.44 | 68.54 | 66.46 | 61.49 | 59.33 | 61.40         | 42.4  |        |      |
| Columbia.....              | 64.38 | 66.52 | 65.42 | 53.37 | 59.34 | 65.43 | 72.51 | 65.54 | 83.50 | 73.54 | 57.48 | 50.44 | 71.48 | 63.37 | 52.37 | 62.32 | 62.44 | 62.38 | 71.40 | 64.50 | 63.53 | 54.38 | 62.34 | 74.39 | 69.53 | 62.33 | 62.33 | 62.33 | 75.40 | 76.38 | 71.60 | 76.50         | 62.34 | 67.60  | 44.8 |
| Conway*.....               | 63.36 | 70.46 | 72.40 | 55.40 | 65.31 | 66.38 | 74.50 | 69.48 | 80.54 | 79.64 | 65.47 | 60.47 | 75.49 | 70.50 | 56.37 | 63.32 | 67.39 | 68.37 | 72.35 | 69.55 | 57.40 | 59.37 | 62.30 | 72.35 | 66.41 | 66.41 | 63.30 | 77.37 | 75.48 | 72.48 | 66.42 | 64.31         | 66.80 | 40.7   |      |
| Darlington.....            | 66.35 | 66.47 | 69.43 | 55.38 | 60.47 | 63.33 | 73.43 | 67.46 | 84.57 | 80.53 | 64.44 | 54.15 | 72.49 | 69.39 | 56.37 | 63.32 | 67.39 | 68.37 | 72.35 | 69.55 | 57.40 | 59.37 | 62.30 | 72.35 | 66.41 | 66.41 | 63.30 | 77.37 | 75.48 | 72.48 | 66.42 | 64.31         | 66.80 | 40.7   |      |
| Dillon†.....               | 66.36 | 66.42 | 69.13 | 54.37 | 60.30 | 60.38 | 63.42 | 67.49 | 89.11 | 82.59 | 80.48 | 73.13 | 73.15 | 68.49 | 54.37 | 75.31 | 78.15 | 84.39 | 84.41 | 64.42 | 58.42 | 59.38 | 62.35 | 63.40 | 67.40 | 71.33 | 71.33 | 78.40 | 79.49 | 77.50 | 72.35 | 62.40         | 64.31 | 66.80  | 40.7 |
| Florence.....              | 64.50 | 68.48 | 73.40 | 54.34 | 59.42 | 69.53 | 59.52 | 69.57 | 78.61 | 78.61 | 63.47 | 58.42 | 77.56 | 77.56 | 53.38 | 60.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47 | 63.47         | 63.47 | 63.47  | 47.3 |
| Georgetown.....            | 62.33 | 66.34 | 58.41 | 59.35 | 57.30 | 62.31 | 72.41 | 56.19 | 71.49 | 67.19 | 58.40 | 49.11 | 53.44 | 54.16 | 53.32 | 60.30 | 60.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30 | 61.30         | 61.30 | 61.30  | 39.0 |
| Greenville*.....           | 64.35 | 63.39 | 60.44 | 53.34 | 58.33 | 63.35 | 69.43 | 63.50 | 79.50 | 66.52 | 57.38 | 48.39 | 58.13 | 54.46 | 53.35 | 59.34 | 60.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34         | 61.34 | 61.34  | 40.6 |
| Heath Springs.....         | 62.34 | 64.46 | 62.42 | 53.32 | 59.34 | 65.38 | 72.46 | 70.44 | 81.53 | 76.38 | 73.12 | 61.12 | 61.15 | 64.52 | 53.35 | 59.34 | 59.39 | 60.34 | 66.30 | 68.52 | 55.35 | 59.31 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15         | 65.15 | 65.15  | 41.5 |
| Jacksonboro.....           | 65.34 | 60.42 | 69.13 | 54.37 | 60.30 | 60.38 | 63.42 | 67.49 | 89.11 | 82.59 | 80.48 | 73.13 | 73.15 | 68.49 | 54.37 | 75.31 | 78.15 | 84.39 | 84.41 | 64.42 | 58.42 | 59.38 | 62.35 | 63.40 | 67.40 | 71.33 | 71.33 | 78.40 | 79.49 | 77.50 | 72.35 | 62.40         | 64.31 | 66.80  | 40.7 |
| Kingstree (r)*.....        | 66.35 | 68.48 | 70.46 | 65.12 | 66.32 | 66.48 | 73.52 | 68.52 | 83.61 | 80.64 | 62.46 | 62.15 | 71.50 | 66.11 | 57.00 | 63.32 | 61.47 | 65.30 | 74.41 | 63.30 | 75.45 | 74.11 | 60.40 | 75.48 | 67.53 | 60.46 | 69.45 | 78.59 | 68.58 | 68.51 | 64.40 | 67.50         | 46.4  |        |      |
| Liberty.....               | 63.34 | 67.45 | 62.11 | 57.15 | 56.13 | 64.11 | 70.11 | 63.49 | 72.49 | 66.54 | 58.46 | 52.40 | 58.44 | 54.46 | 53.35 | 59.34 | 60.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34 | 61.34         | 61.34 | 61.34  | 47.0 |
| Little Mountain.....       | 65.40 | 63.47 | 72.17 | 64.44 | 58.32 | 65.13 | 63.43 | 64.11 | 82.48 | 72.50 | 61.51 | 50.42 | 64.18 | 62.43 | 54.35 | 62.42 | 61.41 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15         | 65.15 | 65.15  | 40.6 |
| Newberry.....              | 64.34 | 64.43 | 62.42 | 53.32 | 59.34 | 65.38 | 72.46 | 70.44 | 81.53 | 76.38 | 73.12 | 61.12 | 61.15 | 64.52 | 53.35 | 59.34 | 59.39 | 60.34 | 66.30 | 68.52 | 55.35 | 59.31 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15 | 65.15         | 65.15 | 65.150 |      |



# TOTAL PRECIPITATION FOR MARCH, 1909.



SCALE OF SHADINGS IN INCHES.

|             |        |        |        |             |
|-------------|--------|--------|--------|-------------|
| Less than 4 | 4 to 4 | 4 to 6 | 6 to 8 | More than 8 |
|-------------|--------|--------|--------|-------------|

## DAILY PRECIPITATION FOR SOUTH CAROLINA, MARCH, 1909.

| STATIONS.         | DAY OF MONTH. |     |     |     |     |      |     |     |      |      |     |      |      |     |     |     |    |    |      |      |      |     |     |     |      |     |    |      |     |    |      | TOTAL. |
|-------------------|---------------|-----|-----|-----|-----|------|-----|-----|------|------|-----|------|------|-----|-----|-----|----|----|------|------|------|-----|-----|-----|------|-----|----|------|-----|----|------|--------|
|                   | 1             | 2   | 3   | 4   | 5   | 6    | 7   | 8   | 9    | 10   | 11  | 12   | 13   | 14  | 15  | 16  | 17 | 18 | 19   | 20   | 21   | 22  | 23  | 24  | 25   | 26  | 27 | 28   | 29  | 30 | 31   |        |
| Aiken             |               | .30 |     |     |     |      |     |     |      | .80  |     | 2.25 |      | .70 | .10 |     |    |    |      | .25  | .70  | .05 |     |     | .50  |     |    |      |     |    |      | 5.65   |
| Allendale*        |               |     | .23 |     |     |      |     |     |      | .87  |     | .51  | .76  | 1   | .50 |     |    |    |      |      | 2.00 |     |     |     | .54  |     |    |      | .40 |    |      | 5.81   |
| Anderson          |               | .45 |     |     |     | .94  | .01 |     |      | 1.11 |     | .62  | 1.38 | .10 |     |     |    |    |      | .16  | .37  | .07 |     |     | .65  |     |    | .54  |     |    | 6.40 |        |
| Augusta, Ga.      |               | .29 |     |     |     | .03  | T.  |     |      | .82  |     | 2.43 | .26  | .45 |     |     |    |    |      | .39  | .44  |     |     |     | .23  |     |    | .39  |     |    | 5.04 |        |
| Barksdale         |               |     |     |     |     |      |     |     |      |      |     |      |      |     |     |     |    |    |      |      |      |     |     |     |      |     |    |      |     |    |      | 4.83   |
| Batesburg*        |               | .35 |     | T.  |     |      | T.  |     | T.   | 1.10 |     | .63  | .52  | .22 | .34 |     |    |    |      |      |      |     |     |     | .51  |     |    | .40  |     |    |      | 6.73   |
| Beaufort          |               | .46 |     |     |     | .35  | T.  |     |      | .87  | .04 | 1.05 |      | .27 |     |     |    |    |      | .33  | 2.32 |     |     |     | .62  |     |    | .42  |     |    |      |        |
| Bennettsville     |               |     |     |     |     |      |     |     |      |      |     |      |      |     |     |     |    |    |      |      |      |     |     |     |      |     |    |      |     |    |      | 4.40   |
| Blackville*       | .07           | .21 |     |     |     |      |     |     | .46  | T.   | .45 | .93  | .01  | .48 |     |     |    |    | T.   | 1.15 | .02  |     |     |     | .49  |     |    | .13  |     |    |      | 4.40   |
| Blairs*           |               | .30 |     |     |     | .08  | .24 |     |      | 1.40 |     | .34  | .38  | .24 |     |     |    |    |      | .30  | .32  |     |     |     | .30  |     |    | .50  |     |    |      | 4.40   |
| Bowman            |               | .74 |     |     |     | .08  |     |     |      | .38  |     | 1.42 |      | .68 | .26 |     |    |    |      | .15  | 1.05 |     |     |     | .71  |     |    | .42  |     |    |      | 5.83   |
| Calhoun Falls*    |               | .31 | .11 |     |     |      | .72 |     |      | .97  |     | .37  | .91  | .63 | .11 |     |    |    |      | .52  |      |     |     |     | .67  |     |    | .48  |     |    |      | 5.80   |
| Camden (1)        |               | .28 | T.  |     |     | .18  |     | T.  |      | 1.10 |     | .45  | .07  | .13 | .07 |     |    |    | T.   | T.   | .42  |     |     |     | T.   | .25 |    | .50  |     |    |      | 3.51   |
| Camden (2)*       |               |     | .06 | .04 |     | .04  | .08 |     |      | 1.10 |     | .30  | .28  | .50 |     |     |    |    |      | .64  |      |     |     |     | .20  |     |    | .32  |     |    |      | 3.56   |
| Catawba*          |               | .34 |     | .04 |     | .12  | .28 |     |      | .94  | .01 | .94  | .50  | .54 |     |     |    |    |      | .01  | .30  |     |     |     | .44  |     |    | .44  |     |    |      | 4.00   |
| Chappells*        |               | .30 |     |     |     |      | .04 |     |      | 1.04 |     | .64  | .68  | .18 | .20 |     |    |    |      | .42  |      |     |     |     | .18  |     |    | .40  |     |    |      | 4.68   |
| Charleston        |               | .30 |     |     |     | .03  |     | .02 |      | .36  | .06 | 1.38 |      | .25 | .04 |     |    |    |      | 0.6  | 1.94 | .01 |     |     | .64  |     |    | .80  |     |    |      | 5.89   |
| Charlotte, N. C.  |               | .12 | .02 |     |     | .61  |     | .02 |      | .03  | .23 |      | .03  | .42 | T.  |     |    |    | T.   | .01  | .03  | .01 |     |     | T.   | .58 |    | .69  |     |    |      | 2.86   |
| Cheraw (1)*       |               | .22 |     | .40 |     |      | .13 |     | T.   | .72  |     | .15  | T.   | .04 | .68 |     |    |    |      | T.   | T.   | .32 |     |     | .39  |     |    | .33  |     |    |      | 3.33   |
| Cheraw (2)*       |               | .12 | .10 | .04 |     | .04  | .10 |     | T.   | .72  |     | .12  | .02  | .03 | .08 |     |    |    |      | T.   | .12  | .20 |     |     | .49  |     |    | .30  | .60 |    |      | 2.54   |
| Clarks Hill       |               | .31 |     |     |     | .13  |     |     |      | 1.13 |     | 2.33 | .11  | .49 | .10 |     |    |    |      | .23  | .84  |     |     |     | .61  |     |    |      |     |    |      | 6.13   |
| Clemson College   |               | .30 |     |     |     | .78  |     |     |      | 1.47 |     | .18  | 1.72 |     |     |     |    |    |      | .14  |      | .22 |     |     | .69  |     |    | .76  |     |    |      | 6.28   |
| Columbia          |               | .21 | .03 |     |     | .08  |     | .04 | .01  | .79  |     | .96  | .05  | .26 |     |     |    |    |      | T.   | .66  |     |     |     | T.   | .17 |    | .21  |     |    |      | 3.47   |
| Conway*           |               | T.  |     | .05 |     | T.   | T.  |     | T.   | .21  |     | .30  | .67  | .47 |     |     |    |    |      |      | .30  | .06 |     |     | .22  |     |    | .09  | T.  |    |      | 2.33   |
| Darlington        |               |     |     |     |     |      |     |     |      |      |     |      |      |     |     |     |    |    |      |      |      |     |     |     |      |     |    |      |     |    |      | 1.54   |
| Dillon            |               | .11 | .05 |     |     | T.   |     | T.  |      | .28  |     | .27  | T.   | .12 | .12 |     |    |    | T.   |      | .32  |     |     |     | .14  |     |    | .13  |     |    |      | 5.50   |
| Effingham*        |               | .25 |     |     |     | T.   |     |     |      | .40  |     | .90  | .75  | .65 |     |     |    |    |      | .50  | .90  |     |     |     | .75  |     |    | .40  |     |    |      | 4.84   |
| Ferguson*         |               |     |     |     |     |      |     |     |      | .74  |     | .30  | 1.00 | .90 |     |     |    |    |      |      | 1.10 |     |     |     | .50  |     |    | .30  |     |    |      | 2.69   |
| Florence*         |               |     |     | .10 |     |      |     |     | .12  | .32  |     | .10  | .14  | .32 |     |     |    |    |      | 1.10 | .04  |     |     |     | .19  |     |    | .09  | .17 |    |      | 3.44   |
| Georgetown        |               |     |     |     |     | T.   |     | .11 | .15  | 1.06 |     | .33  |      | .62 |     |     |    |    |      | .75  | .17  |     |     | .20 |      |     |    | T.   |     |    |      | 6.14   |
| Greenville*       |               | .26 |     |     |     | .53  |     |     |      | 1.05 |     | .12  | 1.65 | .66 |     |     |    |    |      | .07  |      | .10 |     |     | .60  |     |    | .50  |     |    |      | 6.19   |
| Greenwood*        |               | .26 |     |     |     |      | .68 |     |      | 1.91 |     | .68  | .97  | .52 | .05 |     |    |    |      |      | .48  |     |     |     | .36  |     |    | .23  |     |    |      | 3.27   |
| Heath Springs     | .30           |     | .01 |     |     | .27  |     | .02 |      | 1.01 |     | .16  | .14  | .04 |     |     |    |    | .03  | .01  | .46  |     |     |     | .46  |     |    | .36  |     |    |      | 10.06  |
| Jacksonboro       |               | .32 |     |     |     | .33  | .10 |     |      | .68  | .08 | .51  | .20  |     |     |     |    |    |      | .02  | .40  | .02 |     |     | .84  |     |    | 1.64 | .02 |    |      | 3.84   |
| Kingstree (1)*    |               |     | .20 |     |     | .02  |     |     |      | .23  |     | .30  | .67  | .05 | .50 |     |    |    |      | .30  | .25  |     |     |     | .55  |     |    | .25  | .02 |    |      | 4.12   |
| Kingstree (2)*    |               | T.  | .27 |     |     | T.   |     |     |      | .45  | T.  | .30  | .45  | .25 | .30 |     |    |    |      | .50  |      |     |     |     | .55  |     |    | .50  |     |    |      | 7.90   |
| Liberty           |               | .30 | T.  |     |     | 1.30 | T.  | T.  | T.   | 1.10 |     | .40  | 2.40 | .10 |     |     |    |    | .15  | T.   | T.   | .10 |     | .20 | 1.35 |     |    | T.   | .50 |    |      | 4.91   |
| Little Mountain   |               | .35 | .04 |     |     | .45  |     | .03 |      | 1.52 |     | 1.04 | .12  | .14 |     |     |    |    |      | .35  | T.   |     |     |     | .21  |     |    | .44  |     |    |      | 5.00   |
| Newberry          |               | .34 | .02 | .02 | .09 | .30  |     | .03 | 1.82 |      | .51 | .40  | .07  | .14 |     |     |    |    | T.   | .12  | .16  | .24 |     |     | .80  |     |    | .52  |     |    |      | 5.82   |
| Pelzer*           |               | .20 |     |     |     | .40  | .50 |     |      | 1.04 |     | .18  | .92  | .74 |     |     |    |    |      | .25  | .00  |     |     |     | .70  |     |    | .75  |     |    |      | 4.95   |
| Pinopolis         |               | .07 |     |     |     |      | .10 |     |      | .36  |     | 1.55 |      | .75 |     |     |    |    |      | .25  | .00  |     |     |     |      |     |    | .75  |     |    |      | 4.95   |
| St. George*       |               |     | .40 |     |     |      |     |     |      | .60  |     | .30  | 1.25 | .63 |     |     |    |    |      | .20  | .20  |     |     |     | .40  |     |    | .50  |     |    |      | 3.99   |
| St. Matthews*     |               | .05 | .14 |     |     |      | .03 |     |      | .47  |     | .50  | .72  | .13 | .55 |     |    |    |      | .50  | .15  |     |     |     | .50  |     |    | .25  |     |    |      | 4.82   |
| Saluda            |               | .33 | .08 |     |     | .31  |     | .03 |      | 1.65 |     | 1.00 | .08  | .27 | .36 |     |    |    |      | .07  | .46  |     |     |     | .45  |     |    | .41  |     |    |      | 4.66   |
| Santee            |               | .29 | T.  |     |     | .55  |     | T.  |      | 1.06 |     | .22  | .70  | .06 |     |     |    |    | T.   | .07  | .13  | .22 |     |     | T.   | .62 |    | .74  |     |    |      | 5.38   |
| Savannah, Ga.     |               | .54 |     |     |     | .13  |     | .07 | T.   | .83  | .04 | .55  |      | .03 | .93 |     |    |    | 1.27 | 1.40 | T.   |     |     |     | .06  |     |    | .41  |     |    |      | 4.89   |
| Smiths Mills*     |               |     |     |     |     | .03  |     | .05 | .11  |      | .24 | 1.03 |      | .66 |     |     |    |    |      | .41  | .18  |     |     |     | 1.75 |     |    | .17  |     |    |      | 2.38   |
| Society Hill      | .27           |     |     |     | .05 |      | .13 | .68 |      |      | .35 |      | .02  | .16 |     |     |    |    |      | .03  | .35  |     |     |     | .05  |     |    | .26  | .06 |    |      | 4.18   |
| Spartanburg*      |               | .33 |     |     |     | .33  | .53 |     | T.   | .76  |     | .06  | .76  | .51 | T.  |     |    |    |      | .03  | T.   | .05 |     |     | .41  |     |    | .47  |     |    |      | 5.16   |
| Stateburg         |               |     |     |     |     |      |     |     |      |      |     |      |      |     |     |     |    |    |      |      |      |     |     |     |      |     |    |      |     |    |      | 5.16   |
| Summerville       |               | .16 |     |     |     | .02  | T.  | .01 |      | .35  | .03 | 1.57 | .02  | .38 | .23 |     |    |    |      | .11  | 1.41 | .11 |     |     | .53  |     |    | .11  | .06 |    |      | 5.88   |
| Trenton           |               | .38 |     |     |     | .33  |     |     |      | 1.01 |     | 1.74 | .23  | .52 | .04 |     |    |    |      | .20  | .51  | .12 |     |     | .63  |     |    | .17  |     |    |      | 4.23   |
| Trial             |               | .12 |     |     |     | .02  |     | .04 |      | .31  |     | 1.51 | .23  | .57 |     |     |    |    |      | .13  | .60  | .15 |     |     | .30  |     |    | .25  |     |    |      | 6.49   |
| Walhalla          |               |     |     |     |     |      |     |     |      | 1.65 |     | .45  | .30  | .01 |     |     |    |    |      | T.   | .20  | .27 |     |     | 1.00 |     |    | .57  |     |    |      | 6.10   |
| Walterboro        |               | .22 |     |     |     | T.   | .03 |     |      | .31  | .07 | 1.35 | .02  | .69 | .05 |     |    |    |      | 1.18 | 1.08 | .02 |     |     | .71  |     |    | .29  | .10 |    |      | 0.89   |
| Wilmington, N. C. |               | .05 | .06 |     |     | T.   |     |     |      | .23  |     | .07  | T.   | .22 |     |     |    |    |      | T.   | .03  | .01 |     |     | .01  |     |    | .21  |     |    |      | 5.00   |
| Winnboro          |               | .40 | T.  |     |     | .35  |     |     | 32   | 1.45 |     | .84  |      | .05 | .61 | .20 |    |    |      | 51   | .12  |     |     | .50 |      |     |    | .52  |     |    |      | 3.58   |
| Winthrop College  |               | .23 | .02 |     |     | .63  |     | T.  |      |      |     | .84  |      | .05 | .61 | .20 |    |    |      | T.   | T.   | .10 | .06 |     | .54  |     |    | .30  |     |    |      | 7.45   |
| Yemassee*         |               | .23 | .21 |     |     |      | .24 |     | .06  | .46  |     | .23  | .79  |     | .48 |     |    |    |      | T.   | 4.41 | .02 |     |     |      | .36 |    |      |     |    |      |        |

\*Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.



U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR APRIL, 1909.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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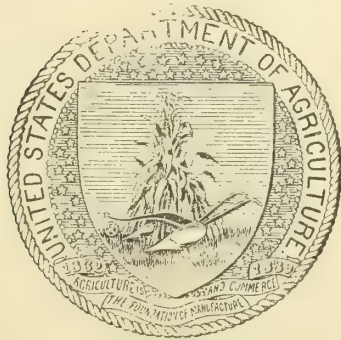
WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



PITTSBURG, PA.

WEATHER BUREAU OFFICE

MAY 28, 1909.

MONTHLY MEAN TEMPERATURE AND PREVAILING WINDS FOR APRIL 1890.

PREPARED BY THE U.S. ARMY.





U. S. DEPARTMENT OF AGRICULTURE,

**CLIMATOLOGICAL SERVICE**

OF THE

**WEATHER BUREAU.**

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION,

J. W. BAUER, Section Director.

Vol. XIII.

COLUMBIA, S. C., APRIL, 1909.

No. 4.

**GENERAL SUMMARY.**

The temperature was favorable throughout the month, the precipitation generally ample, the sunshine about normal, and the prevailing wind was, as usual, from the southwest.

Compared with previous years, this April was the fourth warmest in the last 15 years, higher mean temperatures having been recorded in 1896, 1906, and 1908. The highest monthly mean was  $66.9^{\circ}$  in 1896; the lowest April mean was  $56.0^{\circ}$  in 1901. The highest April maximum was  $98^{\circ}$  in 1896; the lowest minimum was  $20^{\circ}$  in 1907.

The monthly mean temperature varied greatly in different parts of the State. The greatest departures occurred in the east central and in the northwestern portions, where they ranged from  $3^{\circ}$  to over  $4^{\circ}$  above the normal; the west central portion had nearly normal temperatures, the departures ranging from  $0.5^{\circ}$  to  $1.5^{\circ}$ . The highest temperatures occurred in the eastern division and in the Savannah valley. The 5th, 6th and 18th were generally the warmest days. The lowest temperatures occurred in the extreme northeastern and in the northwestern portions, where below freezing temperatures were recorded on the 10th, which was generally the coolest day, killing frost and thin ice having been recorded in the western division and light frost eastward to the immediate coast.

The precipitation was heaviest in the eastern division, where the local amounts ranged from four to over six inches, except in the extreme eastern counties bordering on North Carolina and in the southernmost portion, where the amounts ranged from two to three inches; the central counties received the least rainfall, the amounts ranging from less than an inch to about three inches; the mountain districts received over four inches. About the usual number of rainy days occurred.

**TEMPERATURE.**

The mean temperature was  $63.9^{\circ}$ , which is  $2.6^{\circ}$  above the normal. The highest local mean was  $67.5^{\circ}$ , at St. George; the lowest was  $60.8$ , at Greenville. The monthly extremes were  $96^{\circ}$  at Florence, on the 18th, and  $30^{\circ}$  at Dillon, on the 10th, making the State range  $66^{\circ}$ . The greatest local monthly range was  $63^{\circ}$ , at Florence; the least was  $41^{\circ}$ , at Charleston. The mean of the daily maximum temperatures was  $75.1^{\circ}$ , and of the daily minimum temperatures  $52.7^{\circ}$ , making the average daily range  $22.4^{\circ}$ .

**PRECIPITATION.**

The average precipitation was 2.95 inches, which is 0.19 of an inch below the normal. The greatest local monthly amount was 6.20 inches, at Effingham; the least was 0.68 of an inch, at Blairs. The greatest 24-hour rainfall was 3.60 inches, at Allendale, on the 26th. The average number of rainy days was seven, ranging from three days at Allendale, Batesburg, Blairs and Chappells, to 11 days at Blackville and Columbia.

**EXCESSIVE PRECIPITATION.** At Allendale, on the 26th, 3.60 inches in 24 hours; at Ferguson, on the 2nd, 2.95 inches in 24 hours; at Georgetown, on the 1st, 2.53 inches in 24 hours; at Liberty, on the 30th, 3.29 inches in three hours; at Greenville, on the 30th, 4.85 inches in four hours; at Walhalla, on the 30th, 3.00 inches in one hour.

**WIND.**

The prevailing wind was southwest at 18 stations, south at nine stations, southeast at five stations, northeast, east and west at four stations, north at two stations, and northwest at one station.

**CLOUDINESS.**

The average number of clear days was 14; of partly cloudy days, nine, and of cloudy days, seven.

**MISCELLANEOUS PHENOMENA.**

**HAIL.**—At Anderson and Clarks Hill on the 30th; at Blackville on the 22nd.

**LUNAR HALOS.**—At Camden on the 26th, 29th; at Charleston on the 30th; at Liberty on the 24th; at Walhalla on the 2nd; at Winthrop College on the 1st, 15th.

**SOLAR HALOS.**—At Camden on the 1st, 21st; at Liberty on the 13th; at Santuc on the 21st.

**DENSE FOGS.**—At Blackville on the 14th; at Camden on the 15th, 19th; at Cheraw on the 19th; at Georgetown on the 27th; at Jacksonboro and Winthrop College on the 15th; at Liberty and Santuc on the 26th; at Trial on the 15th, 16th, 18th, 19th, 29th.

**FROSTS.**—Light to heavy frosts occurred in the northern portions on the 1st, 4th, 5th, 6th; a general frost that was killing in the western portion, heavy in the central division, and light on the coast, occurred on the 10th, followed by light frost in places on the 11th. No frost occurred after the 11th.

**HIGH WINDS.**—At Bowman on the 4th; at Camden on the 3rd, 23rd; at Charleston on the 11th; at Columbia on the 23rd; at Effingham, Georgetown, Liberty and Pelzer on the 30th; at Heath Springs on the 3rd; at Jacksonboro on the 3rd, 16th, 30th; at Santuc on the 3rd, 4th, 5th; at Trial on the 2nd, 3rd; at Walhalla on the 3rd, 5th, 11th.

**THUNDERSTORMS.**—Thunderstorms occurred on 9 days. There were two periods of maximum frequency, namely, on the 22nd and 23rd and on the 30th, when from 5 to 10 of the 15 stations that recorded thunderstorms reported their occurrence. They were comparatively infrequent on the 7th, 13th, 14th, 24th, 25th and 26th, when from 1 to 3 stations reported their occurrence.



## COMPARATIVE APRIL DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          | Precipitation. |                   |                |                |                | Number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------------|-------------------|----------------|----------------|----------------|--------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average.       | Greatest Monthly. |                | Least Monthly. |                |                    |                            |
|           |              |               |               |          |          |                | Amount.           | Place.         | Amount.        | Place.         |                    |                            |
| 1894..... | 62.6         | 73.2          | 52.0          | 95       | 30       | 2.01           | 6.05              | Cheraw         | 0.53           | Charleston.    | 6                  | SW.                        |
| 1895..... | 61.4         | 71.6          | 51.5          | 94       | 28       | 5.55           | 9.80              | Stateburg.     | 3.10           | Shaws Fork.    | 10                 | SW.                        |
| 1896..... | 66.9         | 78.9          | 55.3          | 98       | 30       | 1.31           | 2.46              | Mt. Carmel.    | 0.19           | Yemassee.      | 4                  | SW.                        |
| 1897..... | 62.2         | 73.5          | 50.8          | 95       | 31       | 3.24           | 8.40              | Walhalla.      | 1.41           | Gillisonville. | 9                  | SW.                        |
| 1898..... | 58.0         | 69.4          | 46.7          | 92       | 26       | 5.05           | 7.61              | Edisto.        | 2.50           | Charleston.    | 8                  | SW.                        |
| 1899..... | 60.0         | 70.9          | 49.2          | 91       | 27       | 3.02           | 5.57              | Smiths Mills.  | 1.32           | Winnsboro.     | 7                  | N.                         |
| 1900..... | 62.4         | 73.5          | 51.2          | 90       | 24       | 5.41           | 10.32             | Shaws Fork.    | 2.35           | Georgetown.    | 9                  | NE.                        |
| 1901..... | 56.0         | 66.5          | 45.4          | 89       | 30       | 5.03           | 10.58             | Yorkville.     | 1.64           | Charleston.    | 7                  | NW.                        |
| 1902..... | 60.4         | 72.0          | 48.8          | 91       | 24       | 2.18           | 3.79              | Santuc.        | 0.87           | Walhalla.      | 7                  | W.                         |
| 1903..... | 60.4         | 71.8          | 48.9          | 88       | 26       | 2.95           | 5.55              | Liberty.       | 0.85           | Beaufort.      | 8                  | W.                         |
| 1904..... | 59.2         | 71.7          | 47.3          | 89       | 21       | 1.34           | 2.45              | Liberty.       | 0.17           | Charleston.    | 6                  | SW.                        |
| 1905..... | 62.8         | 74.5          | 51.2          | 92       | 25       | 3.83           | 7.51              | Columbia.      | 2.00           | Barksdale.     | 9                  | SW.                        |
| 1906..... | 65.1         | 73.2          | 52.0          | 93       | 31       | 1.39           | 2.84              | Calhoun Falls. | 0.36           | Darlington.    | 4                  | SW.                        |
| 1907..... | 56.4         | 67.7          | 45.0          | 89       | 20       | 4.40           | 9.07              | Edisto.        | 2.40           | Winnsboro.     | 10                 | SW.                        |
| 1908..... | 66.6         | 77.6          | 55.6          | 95       | 31       | 4.75           | 8.48              | Bowman.        | 1.42           | Camden [2].    | 9                  | SW.                        |
| 1909..... | 63.9         | 75.1          | 52.7          | 96       | 30       | 2.95           | 6.20              | Edgingham.     | 0.68           | Blairs.        | 7                  | SW.                        |

\*Also Liberty. †Also Yemassee.

## Pressure and Wind Table, April, 1909.

| Stations.             | Barometric pressure. |          |       |         | Wind.           |                 |                   |            |
|-----------------------|----------------------|----------|-------|---------|-----------------|-----------------|-------------------|------------|
|                       | Mean.                | Highest. | Date. | Lowest. | Total movement. | Average hourly. | Maximum velocity. |            |
|                       |                      |          |       |         |                 |                 | Miles.            | Direction. |
| Augusta, Ga.....      | 30.08                | 30.52    | 11    | 29.69   | 30              | 4910            | 6.8               | W.         |
| Charleston.....       | 30.10                | 30.50    | 11    | 29.81   | 30              | 8662            | 12.0              | E.         |
| Charlotte, N. C.....  | 30.09                | 30.62    | 11    | 29.76   | 30              | 6050            | 8.4               | W.         |
| Columbia.....         | 30.08                | 30.56    | 11    | 29.71   | 30              | 5978            | 8.3               | SW.        |
| Savannah, Ga.....     | 30.11                | 30.47    | 11    | 29.81   | 30              | 5858            | 8.1               | W.         |
| Wilmington, N. C..... | 30.11                | 30.60    | 11    | 29.83   | 27              | 7420            | 10.3              | SW.        |
| Averages or extremes. | 30.10                | 30.62    | 11    | 29.69   | 30              | 6480            | 9.0               | E.         |

## Extremes of Temperature and Precipitation.

| Month.         | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|----------------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|                | Highest monthly mean. | Year. | Lowest monthly mean. | Year. | Greatest monthly. | Year. | Least monthly. | Year. |
| January.....   | 56                    | *1880 | 38                   | 1893  | 8.79              | 1889  | 0.52           | 1872  |
| February.....  | 58                    | 1890  | 39                   | *1895 | 9.53              | 1874  | 0.70           | 1857  |
| March.....     | 60                    | 1908  | 48                   | 1891  | 9.00              | 1891  | 0.62           | 1878  |
| April.....     | 71                    | 1878  | 57                   | *1894 | 9.33              | 1868  | 0.68           | 1865  |
| May.....       | 76                    | 1878  | 64                   | 1877  | 9.85              | 1873  | 1.05           | 1858  |
| June.....      | 84                    | 1878  | 74                   | 1886  | 11.48             | 1867  | 0.55           | 1904  |
| July.....      | 86                    | 1881  | 76                   | 1891  | 10.47             | 1863  | 1.23           | 1867  |
| August.....    | 84                    | 1906  | 76                   | 1878  | 14.09             | 1891  | 2.50           | 1866  |
| September..... | 80                    | 1881  | 66                   | 1878  | 12.06             | 1888  | 0.17           | 1857  |
| October.....   | 71                    | 1881  | 60                   | 1875  | 7.59              | 1887  | 1.             | 1904  |
| November.....  | 60                    | 1881  | 50                   | *1885 | 9.67              | 1865  | 0.50           | 1890  |
| December.....  | 58                    | 1889  | 42                   | *1876 | 8.10              | 1905  | 1.01           | 1890  |

\*Other years also.

## River Gage Readings, April, 1909.

| Stations.            | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|----------------------|--------------|-------|----------|-------|---------|-------|
| Blairs.....          | 14           | 1.6   | 2.2      | 15    | 0.9     | 5     |
| Calhoun Falls.....   | 15           | 2.5   | 3.1      | 28    | 1.9     | 21    |
| Camden.....          | 24           | 0.2   | 1.8      | 16    | 7.0     | 25    |
| Catawba.....         | 11           | 3.6   | 5.7      | *15   | 2.5     | 24    |
| Chapells.....        | 14           | 4.7   | 7.0      | 6     | 2.8     | 12    |
| Cheraw.....          | 27           | 5.9   | 13.8     | 16    | 3.9     | 23    |
| Columbia.....        | 15           | 2.0   | 2.9      | 1     | 1.3     | 25    |
| Conway.....          | 7            | 3.1   | 3.7      | 22    | 2.0     | 3     |
| Edgingham.....       | 12           | 11.0  | 7.4      | *16   | 4.1     | 29    |
| Fergusson.....       | 12           | 4.7   | 6.7      | *2    | 9.1     | 27    |
| Kingstree.....       | 12           | 2.1   | 2.8      | 14    | 2.0     | 30    |
| Mt. Holly, N. C..... | 15           | 4.3   | 5.0      | *1    | 3.8     | *3    |
| Pelzer.....          | 7            | 10.1  | 12.9     | 1     | 8.3     | 26    |
| Rimini.....          | 12           | 9.2   | 11.3     | 6     | 7.3     | 30    |
| Smiths Mills.....    | 16           |       |          |       |         |       |

\*On other dates also.

## CLIMATOLOGY OF AIKEN, S. C.

## Precipitation.

| Year      | Jan. | Feb. | Mar. | Apr. | May  | June  | July  | Aug.  | Sept. | Oct. | Nov. | Dec.  | Ann'l |
|-----------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|-------|
| 1855..... | 2.08 | 2.19 | 1.31 | 5.60 | 4.79 | 6.18  | 5.62  | 2.15  | 0.24  | 1.84 | 6.13 | 40.82 |       |
| 1856..... | 5.30 | 2.34 | 5.70 | 0.79 | 4.46 | 4.59  | 3.25  | 13.80 | 0.17  | 0.81 | 1.97 | 4.34  | 35.87 |
| 1857..... | 4.00 | 0.70 | 3.19 | 2.24 | 4.12 | 2.22  | 5.15  | 0.96  | 0.17  | 0.81 | 1.97 | 4.34  | 35.87 |
| 1858..... | 5.88 | 4.73 | 1.45 | 2.01 | 1.05 | 3.10  | 3.90  | 5.53  | 5.66  | 1.90 | 2.38 | 5.37  | 45.92 |
| 1859..... | 2.70 | 4.14 | 4.26 | 4.01 | 4.07 | 3.74  | 4.27  | 5.53  | 2.06  | 0.95 | 2.48 | 4.34  | 44.02 |
| 1860..... | 0.94 | 7.58 | 1.06 | 2.47 | 2.54 | 2.47  | 4.64  | 4.20  | 0.86  | 1.21 | 2.79 | 3.11  | 33.87 |
| 1861..... | 6.39 | 4.24 | 2.89 | 4.62 | 3.29 | 1.31  | 0.55  | 5.25  | 1.64  | 2.18 | 2.21 | 1.69  | 36.26 |
| 1862..... | 6.21 | 8.76 | 3.84 | 5.25 | 2.65 | 6.43  | 4.53  | 4.62  | 2.10  | 2.70 | 3.99 | 4.25  | 55.39 |
| 1863..... | 3.09 | 5.06 | 3.92 | 2.69 | 3.58 | 6.28  | 10.47 | 4.18  | 2.55  | 3.62 | 3.72 | 7.33  | 56.49 |
| 1864..... | 1.50 | 1.43 | 6.67 | 2.81 | 3.99 | 10.32 | 1.66  | 5.66  | 3.21  | 5.70 | 4.01 | 4.33  | 51.38 |
| 1865..... | 4.49 | 5.35 | 6.37 | 0.68 | 3.05 | 3.68  | 7.34  | 3.70  | 1.32  | 1.89 | 9.07 | 7.17  | 54.71 |
| 1866..... | 1.71 | 2.24 | 2.11 | 7.37 | 6.04 | 5.20  | 5.03  | 2.50  | 2.05  | 1.26 | 1.62 | 2.34  | 39.47 |
| 1867..... | 2.36 | 2.84 | 6.33 | 3.82 | 3.99 | 11.48 | 1.23  | 10.70 | 4.26  | 2.26 | 2.61 | 2.46  | 56.34 |
| 1868..... | 5.35 | 3.34 | 3.51 | 9.33 | 6.41 | 2.46  | 2.51  | 6.39  | 4.94  | 3.50 |      | 2.66  |       |
| 1869..... | 5.41 | 6.73 | 2.31 | 1.63 | 1.10 | 3.71  | 5.55  | 4.11  | 1.79  | 1.37 | 2.75 | 4.57  | 41.18 |
| 1870..... | 2.86 | 2.76 | 4.74 | 1.92 | 8.30 | 2.35  | 3.22  | 0.82  | 4.40  | 2.10 |      |       |       |
| 1871..... | 3.38 | 3.72 | 3.13 | 3.57 | 3.28 | 7.99  | 4.86  | 7.96  | 4.15  |      |      |       |       |
| 1872..... | 0.52 |      |      | 1.57 |      | 6.89  | 4.21  |       | 1.65  | 3.38 | 3.07 |       |       |
| 1873..... | 3.31 | 3.60 |      | 1.53 | 9.85 | 5.12  | 3.75  | 8.68  | 5.69  | 1.21 | 4.36 | 3.22  | 51.78 |
| 1874..... | 3.02 | 9.53 |      | 5.32 | 2.94 | 3.20  | 3.95  | 7.14  | 5.66  | 1.22 | 1.54 | 3.71  | 53.19 |
| 1875..... | 5.51 | 4.32 | 8.84 | 3.74 | 2.25 | 3.45  | 4.79  | 3.37  | 5.94  | 0.81 | 3.51 | 3.12  | 49.65 |
| 1876..... | 1.11 | 3.09 | 3.60 |      |      | 4.26  | 0.54  |       | 2.82  | 2.32 | 4.04 |       |       |
| 1877..... | 2.84 | 3.09 | 2.76 | 4.88 | 1.36 | 5.37  | 3.20  | 3.20  | 2.75  | 4.56 | 4.75 | 2.70  | 41.55 |
| 1878..... | 4.31 | 1.92 | 0.62 | 1.59 | 2.32 | 1.84  | 3.52  | 6.54  | 5.71  | 1.53 | 2.94 | 4.15  | 36.99 |
| 1879..... | 1.65 | 2.61 | 2.61 | 6.39 | 2.00 |       |       |       | 4.09  | 1.89 | 2.26 |       |       |
| 1880..... | 2.21 | 2.65 | 5.02 |      |      |       |       |       | 3.97  | 3.41 |      |       |       |
| 1881..... | 7.72 | 3.05 | 6.70 | 4.15 | 1.85 | 1.98  | 5.30  |       | 3.10  | 1.22 | 3.52 | 3.93  |       |
| 1882..... | 2.35 | 0.95 |      |      |      | 3.32  | 3.51  | 4.06  | 3.36  | 5.40 | 4.06 |       |       |
| 1883..... | 6.97 | 1.65 |      |      |      |       |       |       | 3.48  | 1.61 |      |       |       |
| 1884..... | 2.58 | 3.08 | 7.61 | 4.40 | 3.13 |       |       |       | 1.91  | 6.02 |      |       |       |
| 1885..... | 8.16 | 3.97 | 2.46 | 2.19 | 8.03 |       |       |       | 1.03  | 2.78 |      |       |       |
| 1886..... | 3.40 | 2.20 | 5.75 | 3.10 | 5.58 | 9.21  | 8.40  | 5.60  | 1.55  | 1.83 | 3.26 |       |       |
| 1887..... | 4.18 | 3.80 | 0.98 | 2.77 | 3.84 | 3.99  | 4.83  |       | 7.59  | 0.80 | 4.74 |       |       |
| 1888..... | 3.95 | 5.89 | 7.87 | 1.60 | 6.68 | 5.39  | 4.23  | 5.60  | 12.06 | 5.49 | 2.15 | 4.46  | 65.37 |
| 1889..... | 8.79 | 5.33 | 3.79 | 4.10 | 1.13 |       |       |       | 2.58  | 1.07 |      |       |       |
| 1890..... | 1.08 | 1.85 | 5.10 | 3.07 | 4.35 |       |       |       | 0.50  | 1.01 |      |       |       |
| 1891..... | 2.99 | 3.83 | 9.00 | 1.20 | 5.91 | 4.34  | 7.68  | 14.09 | 3.10  | 2.79 | 3.49 | 60.42 |       |
| 1892..... | 8.59 | 4.93 | 4.93 | 1.73 |      |       |       |       | 0.23  | 1.72 | 1.67 |       |       |
| 1893..... | 3.20 | 6.73 | 1.20 |      |      |       |       |       | 2.12  | 4.59 |      |       |       |
| 1894..... | 2.02 | 4.49 | 2.25 | 2.70 |      |       |       |       | 3.60  | 1.70 | 1.85 |       |       |
| 1895..... | 1.35 | 5.80 | 5.32 | 3.35 | 2.02 | 3.70  | 4.47  | 7.75  | 3.64  | 4.42 | 3.70 | 5.10  | 50.02 |
| 1896..... | 3.10 | 8.55 |      |      |      |       |       |       | 2.90  | 2.06 |      |       |       |
| 1897..... | 2.85 | 3.59 | 3.40 | 1.45 | 1.65 | 0.55  | 4.70  | 3.92  | 0.40  | T.   | 2.45 | 3.25  | 28.21 |
| 1898..... | 2.00 | 7.25 | 3.10 | 3.20 | 4.35 | 2.10  | 5.80  | 3.10  | 0.55  | 1.70 | 1.99 | 8.10  | 43.24 |
| 1899..... | 5.25 | 2.52 | 4.40 | 1.85 | 2.30 | 6.70  | 10.09 | 6.12  | 4.05  | 1.35 | 1.26 | 3.70  | 49.58 |
| 1900..... | 1.35 | 4.20 | 0.95 | 4.15 | 3.57 | 4.92  | 6.87  | 5.72  | 3.42  | 0.00 | 4.30 | 5.18  | 44.63 |
| 1901..... | 5.57 | 4.70 | 4.18 | 4.33 | 1.45 | 5.16  | 1.83  | 5.70  | 1.65  | 4.72 | 1.10 | 3.10  | 43.49 |
| M'ns      | 3.73 | 4.07 | 4.09 | 3.29 | 3.58 | 4.67  | 4.76  | 5.96  | 3.16  | 2.53 | 2.83 | 3.76  | 46.43 |

## CLIMATOLOGY OF AIKEN, S. C.—Temperature.

| Year      | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-----------|------|------|------|------|-----|------|------|------|-------|------|------|------|-------|
| 1873..... | 45   | 51   | 53   | 67   | 74  | 80   | 82   | 78   | 74    | 61   | 52   | 48   | 63.8  |
| 1874..... | 50   | 59   | 59   | 66   | 74  | 83   | 80   | 80   | 76    | 67   | 56   | 49   | 65.4  |
| 1875..... | 43   | 46   | 54   | 61   | 73  | 77   | 83   | 76   | 72    | 60   | 55   | 54   | 60.6  |
| 1876..... | 52   | 50   | 52   |      |     |      | 80   |      |       | 60   | 55   | 54   | 60.6  |



## CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL, 1909.

| STATIONS                   | Counties     | Elevation<br>feet | Length of record<br>years | Temperature—in degrees Fahrenheit. |                               |          |       |         |       | Precipitation—in inches. |        |                               |                             |                             |                       | Sky.                  |                               |                        |       | Prevailing direction<br>of wind. | Observers |
|----------------------------|--------------|-------------------|---------------------------|------------------------------------|-------------------------------|----------|-------|---------|-------|--------------------------|--------|-------------------------------|-----------------------------|-----------------------------|-----------------------|-----------------------|-------------------------------|------------------------|-------|----------------------------------|-----------|
|                            |              |                   |                           | Mean.                              | Departure from<br>the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily<br>range. | Total. | Departure from<br>the normal. | Greatest in<br>24<br>hours. | Total snowfall<br>unmelted. | Number rainy<br>days. | Number clear<br>days. | Number partly<br>cloudy days. | Number cloudy<br>days. |       |                                  |           |
| Aiken                      | Aiken        | 505               | 25                        | 65.8                               | +2.8                          | 90       | 18    | 40      | 10    | 33                       | 1.72   | 1.71                          | 0.66                        | 0                           | 7                     | 23                    | 5                             | 2                      | se.   | C. F. McGahan, M. D.             |           |
| Allendale                  | Barwell      | 186               | 21                        | 67.0                               | +1.2                          | 93       | *18   | 30      | 10    | 40                       | 5.45   | +2.86                         | 1.00                        | 0                           | 1                     | 15                    | 6                             | 9                      | ..... | A. R. Hiers                      |           |
| Anderson                   | Anderson     | 764               | 8                         | 63.3                               | +2.7                          | 87       | 18    | 35      | 10    | 36                       | 1.70   | -1.58                         | 0.67                        | 0                           | 10                    | 13                    | 1                             | 16                     | w.    | H. H. Russell.                   |           |
| Augusta, Ga.               | Richmond     | 180               | 38                        | 64.0                               | +1.4                          | 86       | 5     | 30      | 10    | 34                       | 1.40   | -2.10                         | 0.48                        | 0                           | 8                     | 12                    | 6                             | 12                     | se.   | U. S. Weather Bureau             |           |
| Barksdale                  | Laurens      | 134               | 8                         |                                    |                               |          |       |         |       |                          |        |                               |                             |                             |                       |                       |                               |                        |       | J. T. Garrett.                   |           |
| Batesburg                  | Lexington    | 650               | 21                        | 61.0                               | +0.1                          | 81       | 6     | 36      | 11    | 29                       | 1.21   | -1.59                         | 0.90                        | 0                           | 3                     | 10                    | 8                             | 12                     | n.    | E. J. Hite.                      |           |
| Beaufort                   | Beaufort     | 20                | 23                        | 66.2                               | +1.0                          | 84       | *5    | 42      | *1    | 29                       | 2.47   | -0.30                         | 0.76                        | 0                           | 0                     | 9                     | 15                            | 6                      | se.   | Miss Lillian H. Rice.            |           |
| Bennettsville              | Marlboro     | 151               | 8                         | 65.2                               |                               | 86       | *21   | 32      | 10    | 33                       | 2.48   |                               | 0.95                        |                             | 6                     | 17                    | 6                             | 7                      | s.    | C. S. McCall.                    |           |
| Blackville                 | Barwell      | 296               | 21                        | 66.0                               | +2.7                          | 90       | *5    | 35      | 9     | 36                       | 4.01   | -0.94                         | 0.12                        | 0                           | 11                    | 12                    | 7                             | 11                     | se.   | Miss M. E. Lange.                |           |
| Blairs                     | Fairfield    | 293               | 4                         |                                    |                               |          |       |         |       |                          | 0.68   |                               | 0.60                        | 0                           | 3                     | 13                    | 11                            | 6                      | s.    | T. S. McMeekin.                  |           |
| Bowman                     | Orangeburg   | 160               | 8                         | 65.3                               |                               | 90       | 6     | 32      | 10    | 38                       | 4.69   |                               | 1.42                        | 0                           | 0                     | 18                    | 5                             | 7                      | sw.   | B. O. Evans.                     |           |
| Calhoun Falls              | Abbeville    | 508               | 16                        |                                    |                               |          |       |         |       |                          | 1.83   | -1.72                         | 0.67                        | 0                           | 5                     | 19                    | 0                             | 11                     | ne.   | P. J. Pfeifer.                   |           |
| Camden (1)                 | Kershaw      |                   | 3                         | 64.8                               |                               | 88       | 6     | 39      | 1     | 33                       | 1.78   |                               | 0.66                        | 0                           | 8                     | 14                    | 9                             | 8                      | sw.   | J. B. Mickle.                    |           |
| Camden (2)                 | Kershaw      | 222               | 43                        |                                    |                               |          |       |         |       |                          | 2.06   | -1.05                         | 0.78                        | 0                           | 6                     | 19                    | 6                             | 5                      | c.    | W. C. Brown.                     |           |
| Catawba                    | York         | 502               | 4                         |                                    |                               |          |       |         |       |                          | 2.15   |                               | 1.10                        | 0                           | 7                     | 11                    | 10                            | 9                      | sw.   | Jas. C. Faris.                   |           |
| Chappells                  | Newberry     | 402               | 4                         |                                    |                               |          |       |         |       |                          | 1.10   |                               | 0.52                        | 0                           | 3                     | 13                    | 12                            | 5                      | sw.   | M. C. Rivers.                    |           |
| Charleston                 | Charleston   | 48                | 39                        | 65.4                               | -1.6                          | 84       | 7     | 43      | 10    | 23                       | 3.58   | -0.59                         | 2.48                        | 0                           | 8                     | 9                     | 12                            | 9                      | sw.   | U. S. Weather Bureau.            |           |
| Charlotte, N. C.           | Mecklenburg  | 773               | 31                        | 61.6                               | +2.4                          | 83       | 5     | 33      | 11    | 29                       | 3.99   | -0.55                         | 2.22                        | 0                           | 8                     | 10                    | 8                             | 12                     | s.    | U. S. Weather Bureau.            |           |
| Cheraw (1)                 | Chesterfield | 144               | 21                        | 62.8                               | +2.1                          | 86       | 6     | 33      | 10    | 35                       | 2.66   | -0.30                         | 1.07                        | 0                           | 7                     | 11                    | 9                             | 10                     | sw.   | W. R. Godfrey.                   |           |
| Cheraw (2)                 | Chesterfield | 144               | 16                        |                                    |                               |          |       |         |       |                          | 2.61   | -0.35                         | 1.14                        | 0                           | 6                     | 12                    | 11                            | 7                      | ne.   | Jno. H. Powe.                    |           |
| Clarks Hill                | Edgefield    | 456               | 7                         | 62.0                               |                               | 84       | *5    | 32      | 10    | 32                       | 3.57   |                               | 1.83                        | 0                           | 7                     |                       |                               |                        | ..... | Wm. S. Middleton.                |           |
| Clemson College            | Oconee       | 850               | 18                        | 61.6                               | +2.7                          | 82       | *6    | 35      | 10    | 31                       | 1.91   | -1.68                         | 1.07                        | 0                           | 5                     | 19                    | 5                             | 6                      | s.    | Prof. Jno. N. Hook.              |           |
| Columbia                   | Richland     | 351               | 22                        | 64.2                               | +1.4                          | 87       | 6     | 37      | 10    | 35                       | 1.72   | -2.47                         | 0.66                        | 0                           | 11                    | 10                    | 10                            | 10                     | sw.   | U. S. Weather Bureau.            |           |
| Conway                     | Horry        | 25                | 17                        | 64.6                               |                               | 89       | 6     | 33      | 10    | 40                       | 3.74   | +0.69                         | 1.94                        | 0                           | 6                     | 15                    | 0                             | 15                     | se.   | P. C. Quattlebaum.               |           |
| Darlington                 | Darlington   | 175               | 14                        | 64.0                               |                               | 87       | 7     | 31      | 10    | 35                       | 3.42   | -0.21                         | 1.00                        | 0                           | 7                     |                       |                               |                        | ..... | D. C. McCall.                    |           |
| Dillon                     | Marion       | 100               | 5                         | 66.2                               |                               | 89       | 6     | 30      | 10    | 40                       | 2.99   | 0.60                          | 1.31                        | 0                           | 9                     |                       |                               |                        | ..... | A. E. Rowell.                    |           |
| Effingham                  | Florence     | 106               | 17                        |                                    |                               |          |       |         |       |                          | 6.20   | 2.75                          | 1.75                        | 0                           | 7                     | 13                    | 6                             | 11                     | sw.   | H. B. McCall.                    |           |
| Ferguson                   | Berkeley     | 51                | 2                         |                                    |                               |          |       |         |       |                          | 4.85   |                               | 2.95                        | 0                           | 5                     | 15                    | 5                             | 9                      | n.    | D. B. Gilliland, Jr.             |           |
| Florence                   | Florence     | 136               | 21                        | 65.4                               | +4.3                          | 96       | 18    | 33      | 8     | 43                       | 1.95   | 1.00                          | 0.92                        | 0                           | 4                     | 21                    | 4                             | 5                      | ne.   | H. K. Gilbert.                   |           |
| Georgetown                 | Georgetown   | 12                | 16                        | 65.8                               | +2.8                          | 86       | *6    | 38      | 9     | 32                       | 5.01   | -1.79                         | 2.53                        | 0                           | 6                     | 15                    | 10                            | 5                      | ne.   | Wm. Alden James.                 |           |
| Greenville                 | Greenville   | 989               | 17                        | 60.8                               | +4.2                          | 84       | *5    | 34      | 11    | 42                       | 1.43   | -2.19                         | 0.40                        | 0                           | 9                     | 15                    | 3                             | 12                     | sw.   | Mrs. S. A. Crittenden.           |           |
| Greenwood                  | Greenwood    | 671               | 21                        | 62.7                               | +2.5                          | 86       | *6    | 31      | 1     | 36                       | 1.60   | 1.40                          | 0.82                        | 0                           | 2                     | 18                    | 0                             | 12                     | w.    | M. M. Calhoun.                   |           |
| Heath Springs              | Lancaster    | 568               | 8                         | 63.6                               |                               | 88       | 6     | 36      | 10    | 35                       | 1.98   |                               | 0.70                        | 0                           | 7                     | 16                    | 7                             | 7                      | s.    | J. A. Weaner.                    |           |
| Jacksonboro                | Colleton     | 13                | 1                         | 64.8                               |                               | 83       | *7    | 39      | 10    | 32                       | 3.50   |                               | 1.05                        | 0                           | 6                     | 15                    | 5                             | 10                     | e.    | W. E. Haskell, jr.               |           |
| Kingstree (1)              | Williamsburg | 54                | 21                        | 65.8                               | +3.9                          | 86       | 6     | 40      | 10    | 30                       | 4.07   | +1.25                         | 1.98                        | 0                           | 7                     | 17                    | 6                             | 7                      | e.    | J. A. Scott.                     |           |
| Kingstree (2)              | Williamsburg | 54                | 15                        |                                    |                               |          |       |         |       |                          | 4.42   | +1.45                         | 2.20                        | 0                           | 6                     | 20                    | 5                             | 5                      | sw.   | A. O. Matthews.                  |           |
| Liberty                    | Pickens      | 900               | 15                        | 63.2                               | +3.3                          | 87       | 18    | 33      | 10    | 37                       | 3.50   | -0.50                         | 0.88                        | 0                           | 8                     | 18                    | 7                             | 5                      | sw.   | Jno. T. Boggs.                   |           |
| Little Mountain            | Newberry     | 711               | 16                        | 63.0                               | +1.4                          | 86       | 6     | 35      | 11    | 30                       | 1.74   | 1.95                          | 0.96                        | 0                           | 4                     | 16                    | 9                             | 5                      | s.    | J. M. Sease, M. D.               |           |
| Newberry                   | Newberry     | 502               | 5                         | 63.8                               | +3.1                          | 88       | *6    | 31      | 10    | 43                       | 2.39   | -0.83                         | 1.48                        | 0                           | 7                     | 13                    | 5                             | 12                     | s.    | W. G. Peterson.                  |           |
| Pelzer                     | Anderson     | 873               | 4                         |                                    |                               |          |       |         |       |                          | 1.90   |                               | 0.66                        | 0                           | 8                     | 12                    | 7                             | 11                     | w.    | John M. Ward.                    |           |
| Pinopolis                  | Berkeley     | 54                | 10                        | 64.9                               | +3.4                          | 83       | *6    | 40      | 10    |                          | 5.57   | -2.25                         | 2.00                        | 0                           | 7                     | 16                    | 4                             | 10                     | hw.   | Miss E. P. Ravenel.              |           |
| St. George                 | Dorchester   | 109               | 21                        | 67.5                               | +4.6                          | 88       | 20    | 42      | 11    | 30                       | 5.00   | +1.99                         | 2.05                        | 0                           | 7                     | 23                    | 0                             | 7                      | ..... | G. T. Lewis.                     |           |
| St. Matthews               | Calhoun      | 209               | 21                        | 62.2                               | -0.5                          | 85       | *5    | 36      | 10    | 34                       | 2.25   | -1.23                         | 0.81                        | 0                           | 6                     | 20                    | 0                             | 10                     | ..... | J. S. Wannamaker.                |           |
| Saluda                     | Saluda       | 530               | 7                         | 61.2                               |                               | 89       | 18    | 34      | 10    | 41                       | 1.54   |                               | 0.85                        | 0                           | 8                     | 21                    | 2                             | 6                      | s.    | Alvin Etheridge.                 |           |
| Santee                     | Union        | 512               | 15                        | 62.6                               | +3.2                          | 88       | 18    | 31      | 10    | 43                       | 0.92   | -2.69                         | 0.41                        | 0                           | 5                     | 9                     | 12                            | 8                      | se.   | E. W. Jeter.                     |           |
| Savannah, Ga.              | Chatham      | 71                | 39                        | 66.2                               | -1.5                          | 84       | 20    | 43      | 10    | 26                       | 1.00   | 1.09                          | 0.54                        | 0                           | 12                    | 10                    | 0                             | 11                     | sw.   | U. S. Weather Bureau.            |           |
| Smiths Mill                | Williamsburg | 62                | 14                        |                                    |                               |          |       |         |       |                          | 3.43   | -0.22                         | 1.17                        | 0                           | 7                     | 21                    | 0                             | 9                      | e.    | W. G. Walker.                    |           |
| Society Hill               | Darlington   | 192               | 18                        | 63.8                               | +2.3                          | 85       | 22    | 36      | 9     | 32                       | 2.91   | -0.57                         | 0.68                        | 0                           | 8                     | 15                    | 6                             | 9                      | sw.   | Major J. J. Lucas.               |           |
| Spartanburg                | Spartanburg  | 875               | 18                        | 62.6                               | +2.9                          | 91       | 18    | 31      | 10    | 37                       | 2.12   | -1.11                         | 0.55                        | 0                           | 7                     | 11                    | 0                             | 19                     | ..... | F. P. Robinson.                  |           |
| Stateburg                  | Sumter       | 500               | 32                        |                                    |                               |          |       |         |       |                          |        |                               |                             |                             |                       |                       |                               |                        | ..... | W. W. Anderson, M. D.            |           |
| Summerville                | Dorchester   | 75                | 12                        | 66.0                               | +4.3                          | 90       | 5     | 37      | 1     | 40                       | 4.53   | +0.80                         | 1.59                        | 0                           | 9                     | 6                     | 22                            | 2                      | sw.   | Miss E. H. Gadsden.              |           |
| Trenton                    | Edgefield    | 620               | 16                        | 64.0                               | +0.8                          | 93       | 17    | 37      | 10    | 41                       | 1.77   | 1.77                          | 1.39                        | 0                           | 7                     | 10                    | 16                            | 4                      | s.    | C. A. Long.                      |           |
| Trial                      | Berkeley     | 85                | 23                        | 63.7                               | +2.4                          | 88       | *6    | 33      | 10    | 38                       | 4.05   | -1.87                         | 2.26                        | 0                           | 9                     | 8                     | 17                            | 5                      | w.    | Etsell Gaillard.                 |           |
| Walhalla                   | Oconee       | 1061              | 18                        | 61.4                               | +3.1                          | 87       | 18    | 35      | 10    | 35                       | 5.51   | +1.11                         | 3.38                        | 0                           | 7                     | 15                    | 7                             | 8                      | sw.   | N. L. Fant.                      |           |
| Walterboro                 | Colleton     | 63                | 5                         | 66.4                               |                               | 90       | 5     | 35      | 10    | 41                       | 4.98   |                               | 1.69                        | 0                           | 9                     | 10                    | 14                            | 6                      | ..... | J. A. Westerberg.                |           |
| Wilmington, N. C.          | New Hanover  | 78                | 39                        | 63.2                               | +2.8                          | 85       | 6     | 38      | 1     | 28                       | 1.76   | +0.90                         | 1.29                        | 0                           | 9                     | 9                     | 17                            | 4                      | sw.   | U. S. Weather Bureau.            |           |
| Winnboro                   | Fairfield    | 545               | 20                        | 62.8                               | +1.9                          | 87       | 6     | 35      | 11    | 29                       | 2.41   | -0.45                         | 1.11                        | 0                           | 6                     | 19                    | 8                             | 3                      | sw.   | John W. Seigler.                 |           |
| Winthrop College           | York         | 690               | 10                        | 63.0                               |                               | 84       | *5    | 33      | 11    | 34                       | 1.73   |                               | 0.55                        | 0                           | 8                     | 17                    | 6                             | 7                      | sw.   | E. R. Rivers.                    |           |
| Yemassee                   | Hampton      | 23                | 14                        | 64.6                               | +3.2                          | 87       | 20    | 37      | 10    | 35                       | 3.50   | +0.23                         | 1.27                        | 0                           | 9                     | 17                    | 0                             | 13                     | ..... | J. G. Hutson.                    |           |
| Means, extremes and dates. |              |                   |                           | 63.9                               | +2.6                          | 96       | 18    | 30      | 10    | 43                       | 2.45   | -0.24                         | 3.06                        | 0                           | 7                     | 14                    | 9                             | 7                      | sw.   |                                  |           |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed non-registering thermometer not standard. \* On other dates also. a, Indicates 1 day missing; b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



THE PROX.

[illegible]



\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs.

† The data for Sundays and Mondays taken on Monday mornings and Monday evenings respectively.





SCALE OF SHADINGS IN INCHES.

|   |                |
|---|----------------|
|  | LOSS OF SOIL 2 |
|  | 3 to 4         |
|  | 4 to 5         |
|  | 5 to 6         |
|  | More than 6    |

## DAILY PRECIPITATION FOR SOUTH CAROLINA, APRIL, 1909.

| STATIONS.             | DAY OF MONTH. |      |      |   |     |     |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |     |     |     |      |      |      |      |      |      |      | TOTAL. |      |      |
|-----------------------|---------------|------|------|---|-----|-----|-----|------|-----|-----|-----|-----|------|------|-----|----|----|----|----|----|----|-----|-----|-----|------|------|------|------|------|------|------|--------|------|------|
|                       | 1             | 2    | 3    | 4 | 5   | 6   | 7   | 8    | 9   | 10  | 11  | 12  | 13   | 14   | 15  | 16 | 17 | 18 | 19 | 20 | 21 | 22  | 23  | 24  | 25   | 26   | 27   | 28   | 29   | 30   | 31   |        |      |      |
| Aiken.....            |               | .40  |      |   |     |     | .10 | .20  |     |     |     |     |      |      |     |    |    |    |    |    |    | .10 | .10 |     | .22  |      | .60  |      |      |      |      | 1.72   |      |      |
| Allendale*.....       |               | 1.45 |      |   |     |     |     |      |     |     |     |     | .21  |      |     |    |    |    |    |    |    |     |     |     |      |      |      |      |      |      |      | 5.45   |      |      |
| Anderson.....         |               |      |      |   |     |     | .16 | .13  | .01 |     |     |     | .21  |      |     |    |    |    |    |    |    | .01 | .50 |     | .10  | .03  | .22  |      | .40  |      |      | 1.70   |      |      |
| Augusta, Ga.....      | .04           | .07  |      |   |     |     | .05 | .10  |     |     |     |     | .21  | T.   |     |    |    |    |    |    |    | .04 |     | T.  | .32  |      | .48  |      |      |      |      | 1.40   |      |      |
| Barksdale.....        |               | .03  |      |   |     |     |     | T.   |     |     |     |     |      | T.   |     |    |    |    |    |    |    |     | T.  |     |      |      | .30  |      | .90  |      |      | 1.23   |      |      |
| Beaufort.....         |               | .70  |      |   |     |     |     | .28  |     |     |     |     |      | .72  | .07 |    |    |    |    |    |    |     |     |     |      | .34  | .25  |      |      |      |      | 2.47   |      |      |
| Bennettsville.....    | .40           |      |      |   |     |     |     |      |     |     |     |     | .95  |      |     |    |    |    |    |    |    |     | .22 | .13 | T.   |      | .16  |      | .62  |      |      | 2.48   |      |      |
| Blackville*.....      | .70           |      |      |   |     |     | .04 | .18  |     |     |     | .09 | .02  |      |     |    |    |    |    |    |    | .08 | .17 |     | .37  |      | .70  |      | .92  |      |      | 4.01   |      |      |
| Blairs*.....          |               |      |      |   |     |     |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |     | .04 |     | .04  |      | .60  |      |      |      |      | 0.68   |      |      |
| Bowman.....           |               | 1.42 |      |   |     |     |     | .18  |     |     |     |     | 1.12 | T.   |     |    |    |    |    |    |    |     | .01 | T.  | T.   | .79  |      | .82  |      |      |      | 4.09   |      |      |
| Calhoun Falls*.....   |               |      |      |   |     |     |     | .13  | .14 |     |     |     | .66  | .01  |     |    |    |    |    |    |    |     |     |     | .62  |      | .33  |      | .07  |      |      | 1.81   |      |      |
| Camden (1).....       |               | .20  |      |   |     |     | T.  | T.   | .13 |     |     |     | .66  | .01  |     |    |    |    |    |    |    |     |     | .37 |      | T.   | .28  | .01  | 2.00 |      |      | 1.89   |      |      |
| Camden (2)*.....      |               | .40  |      |   |     |     |     | .28  |     |     |     |     | .34  |      |     |    |    |    |    |    |    |     |     |     |      | .07  | .03  | .55  | .01  |      |      | 1.78   |      |      |
| Catawba*.....         |               |      |      |   |     |     |     | .12  |     |     |     |     | .03  | 1.10 |     |    |    |    |    |    |    |     |     |     |      |      | .10  | .12  | .12  | .50  |      |        | 2.06 |      |
| Chappells*.....       |               |      |      |   |     |     |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |     |     |     |      |      | .12  | .12  | .50  |      |      | 2.15   |      |      |
| Charleston.....       |               |      |      |   |     |     |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |     | .38 |     |      |      | .20  | .52  |      |      |      | 1.10   |      |      |
| Charlottesville.....  | .34           | .50  |      |   |     |     | .03 | .18  |     |     |     | T.  | .15  | .43  |     |    |    |    |    |    |    |     |     | T.  | T.   | 1.48 | T.   | .47  |      |      |      | 3.58   |      |      |
| Charlotte, N. C.....  |               |      |      |   |     |     | T.  | .04  |     |     |     |     | 1.21 | .07  | T.  |    |    |    |    |    |    |     |     | .37 |      | T.   |      | .28  | .01  | 2.00 |      |        | 1.69 |      |
| Cheraw (1)*.....      |               | .77  | T.   |   |     |     |     | .06  |     |     |     |     | .69  | 1.07 | T.  |    |    |    |    |    |    |     |     |     |      | .10  |      | .15  | .12  |      |      | 2.66   |      |      |
| Cheraw (2)*.....      |               | .77  |      |   |     |     |     | T.   | .36 |     |     |     | .08  | 1.14 | T.  |    |    |    |    |    |    |     |     |     |      |      | .14  | .12  |      |      |      | 2.61   |      |      |
| Clarks Hill.....      |               |      |      |   |     |     |     | T.   | .15 |     |     |     | .39  |      |     |    |    |    |    |    |    | .22 | T.  | T.  | .19  |      | .40  | .48  |      | 1.83 |      | 3.57   |      |      |
| Clemson College.....  |               |      |      |   |     |     | .27 | .10  |     |     |     |     | .15  |      |     |    |    |    |    |    |    |     |     |     | 1.07 | .32  |      |      |      |      |      | 1.91   |      |      |
| Columbia.....         | .68           | .19  |      |   |     |     | T.  | .11  | T.  |     |     | .01 | .29  | .01  | .01 |    |    |    |    |    |    |     | T.  | T.  |      | .04  | .01  | .66  |      | .31  |      | 1.72   |      |      |
| Conway*.....          |               | 1.94 |      |   |     |     |     | .52  |     |     |     |     | .18  | .83  | .10 |    |    |    |    |    |    |     |     |     |      |      | .11  | T.   |      |      |      | 3.74   |      |      |
| Darlington.....       |               |      | 1.00 |   |     |     |     | .14  |     |     |     |     | .32  | 1.06 |     |    |    |    |    |    |    |     |     |     | .02  |      | .33  | .36  |      |      |      | 3.42   |      |      |
| Dillon.....           |               | 1.31 |      |   |     |     |     | .39  | .17 |     |     |     | .66  |      |     |    |    |    |    |    |    |     |     |     |      | .01  |      | .13  | .37  | .01  |      | 2.89   |      |      |
| Effingham*.....       |               | 1.50 |      |   |     |     |     | .60  |     |     |     |     | .50  | 1.75 | T.  |    |    |    |    |    |    |     |     |     |      |      | .40  |      | .50  | .65  |      | 6.20   |      |      |
| Ferguson*.....        |               | 2.95 |      |   |     |     |     | .45  |     |     |     |     |      | .20  |     |    |    |    |    |    |    |     |     |     |      |      |      | .59  | .75  |      |      | 4.88   |      |      |
| Florence*.....        |               | .92  |      |   |     |     |     | .28  |     |     |     |     |      |      |     |    |    |    |    |    |    |     |     |     |      |      | .27  | .48  |      |      |      | 1.55   |      |      |
| Georgetown.....       | 2.53          |      |      |   |     |     | .15 | T.   |     |     |     | .60 | .37  | .28  |     |    |    |    |    |    |    |     | T.  |     | .82  | T.   | T.   |      |      |      | 5.04 |        |      |      |
| Greenville*.....      |               | .01  |      |   |     |     | .05 | .01  | .20 |     |     |     | .20  | .10  |     |    |    |    |    |    |    |     |     | .40 | .15  |      | .10  | .32  |      |      |      | 1.43   |      |      |
| Greenwood*.....       |               |      |      |   |     |     |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |     |     |     |      | .78  |      |      | .82  |      |      | 1.10   |      |      |
| Heath Springs.....    |               | .04  |      |   |     |     |     | .21  |     |     |     |     | .70  | .02  |     |    |    |    |    |    |    |     |     |     | .26  |      | .39  | .36  |      |      |      | 1.28   |      |      |
| Jacksonboro.....      |               | 1.05 |      |   |     |     |     | T.   | .46 |     |     |     | .34  | .39  |     |    |    |    |    |    |    |     |     |     |      | 1.02 | .33  |      |      |      |      | 1.50   |      |      |
| Kingstree (1)*.....   |               | 1.96 |      |   |     |     |     | .47  |     |     |     |     | .17  | .71  | .07 |    |    |    |    |    |    |     |     |     |      |      | .21  | .46  |      |      |      | 4.07   |      |      |
| Kingstree (2)*.....   |               | 2.20 |      |   |     |     |     | .47  |     |     |     |     | T.   | 1.09 | .05 |    |    |    |    |    |    |     |     |     |      |      |      | .22  | .48  |      |      | 4.42   |      |      |
| Liberty.....          |               |      |      |   |     |     | .20 | .75  |     |     |     |     | .30  |      |     |    |    |    |    |    |    |     |     |     |      |      | .72  |      | .10  | .05  | .88  | T.     | .50  | 3.50 |
| Little Mountain.....  |               |      |      |   |     |     |     |      |     |     |     |     | .09  |      |     |    |    |    |    |    |    |     |     |     |      |      | .28  | .08  | .45  |      |      |        | 1.74 |      |
| Newberry.....         |               |      |      |   |     |     | T.  | .06  |     |     |     |     | T.   | .04  |     |    |    |    |    |    |    |     |     |     |      | .21  | .01  | .08  | .52  |      | 1.48 |        | 2.89 |      |
| Pelzer*.....          |               |      |      |   |     |     | T.  | .08  | .18 |     |     |     | .10  | .10  |     |    |    |    |    |    |    |     |     |     |      | .66  | .20  | .28  | .18  |      |      | 1.90   |      |      |
| Pinopolis.....        |               | 1.55 |      |   |     |     |     | .25  | .30 |     |     |     | .75  |      |     |    |    |    |    |    |    |     |     |     |      |      | .10  |      | 2.60 | .62  |      |        | 5.27 |      |
| St. George*.....      |               | 2.05 |      |   |     |     |     | .50  |     |     |     |     | .20  | .95  |     |    |    |    |    |    |    |     |     |     |      |      | .29  | 1.20 | .80  |      |      | 5.00   |      |      |
| St. Matthews*.....    |               | .80  |      |   |     |     |     | .22  | .22 |     |     |     | .25  | .50  |     |    |    |    |    |    |    |     |     |     |      |      |      | .20  | .22  |      |      | 2.25   |      |      |
| Saluda.....           |               | T.   |      |   |     |     | .01 | .04  | .08 |     |     |     | .15  |      |     |    |    |    |    |    |    |     | T.  | .28 |      | .11  |      | .85  | .02  |      |      | 1.54   |      |      |
| Santee.....           |               |      |      |   |     |     |     | T.   | .07 | .03 |     |     | .24  |      |     |    |    |    |    |    |    |     |     |     |      | T.   | .41  |      | .17  |      | T.   | 0.92   |      |      |
| Savannah, Ga.....     |               | .11  | .31  |   |     |     |     | .02  | .14 |     | .01 |     | .26  | .03  |     |    |    |    |    |    |    |     |     |     |      |      | .03  | .10  | .54  | .09  |      | 1.90   |      |      |
| Smiths Mills*.....    |               |      |      |   |     |     |     | 1.17 |     |     |     |     | .16  | .49  |     |    |    |    |    |    |    |     |     |     |      |      | .16  | .33  | .03  | .20  |      | 3.43   |      |      |
| Society Hill.....     |               | .68  |      |   |     |     |     | .37  |     |     |     | .12 | .47  |      |     |    |    |    |    |    |    |     |     |     |      |      | .08  | .34  | .39  |      | .65  |        | 2.91 |      |
| Spartanburg*.....     |               |      |      |   | .26 |     |     |      |     |     |     |     | .42  | .55  |     |    |    |    |    |    |    |     |     |     |      |      | .32  | .07  | .10  | .40  |      | 2.12   |      |      |
| Stateburg.....        |               |      |      |   |     |     |     |      |     |     |     |     |      |      |     |    |    |    |    |    |    |     |     |     |      |      |      |      |      |      |      |        |      |      |
| Summerville.....      |               | 1.28 |      |   |     |     | T.  | T.   | .42 |     |     |     | .34  | .11  |     | T. |    |    |    |    |    |     |     |     |      | .09  |      | 1.59 | .03  | .56  | .11  |        | 4.54 |      |
| Trenton.....          |               | .05  |      |   |     |     | .09 | .06  |     |     |     |     | .11  |      |     |    |    |    |    |    |    |     |     |     |      | .12  |      |      | 1.30 |      | .94  |        | 1.77 |      |
| Trial.....            |               | 2.25 | T.   |   |     |     |     | .45  |     |     |     | .10 | .21  | .04  |     |    |    |    |    |    |    |     |     |     |      |      | .18  | .05  | .60  | .75  |      |        | 4.05 |      |
| Walhalla.....         |               |      |      |   |     | .09 | .60 |      |     |     |     |     | .24  |      |     |    |    |    |    |    |    |     |     |     |      |      | 1.07 |      | .25  | .27  |      | 3.00   | 4.05 |      |
| Walterboro.....       |               | 1.17 |      |   |     |     |     | T.   | .54 |     |     |     | .04  | .01  | .01 |    |    |    |    |    |    |     |     |     |      |      |      | T.   | 1.69 | .02  | .48  | .12    | 4.08 |      |
| Wilmington, N. C..... |               | 1.17 |      |   |     |     |     | .28  | .05 |     |     |     | T.   | 1.15 | .50 |    |    |    |    |    |    |     |     |     |      |      | .11  |      | .10  | .06  | .02  |        | 3.79 |      |
| Winnsboro.....        |               |      |      |   |     |     |     | .10  |     |     |     |     | .25  | .20  | T.  |    |    |    |    |    |    |     |     |     |      |      |      | .25  | .50  |      | 1.11 | 2.41   |      |      |
| Winthrop College..... |               |      |      |   |     |     | .04 | .05  |     |     |     |     | .20  | .55  |     |    |    |    |    |    |    |     |     |     |      |      | .42  |      | T.   | .03  | .20  | .15    | 1.71 |      |
| Yemassee*.....        |               | .64  |      |   |     |     |     | .44  |     |     |     |     | .70  | .57  | .02 |    |    |    |    |    |    |     |     |     |      |      |      | .39  | .02  | .70  | .17  |        | 3.50 |      |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR MAY, 1909.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



PITTSBURG, PA.  
WEATHER BUREAU OFFICE

JUNE 24, 1909.

MAP OF THE STATE OF TEXAS, SHOWING THE COURSE OF THE RIVER, AND THE POSITION OF THE CITIES.





U. S. DEPARTMENT OF AGRICULTURE,

## CLIMATOLOGICAL SERVICE

OF THE

## WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

SOUTH CAROLINA SECTION.

J. W. BAUER, Section Director.

Vol. XIV. COLUMBIA, S. C., MAY, 1909.

No. 5.

## GENERAL SUMMARY.

Generally favorable temperatures prevailed throughout the month, the precipitation was ample over all but a small portion of the State, and there was abundant sunshine, and few destructive winds or hail storms, and but small damage by floods.

Compared with previous years, the month was cooler. Lower mean temperatures were recorded only in 1895 and 1897, the former having been the coolest May on record, with a mean temperature of 69.0°. The warmest May occurred in 1898, when the mean temperature was 73.8°. The mean of the daily maximum temperatures was lower only in 1895, and the mean of the daily minimum temperatures was lower in 1897 and in 1904. The highest May maximum was 104° in 1896; the lowest minimum was 30° in 1906.

The range in monthly mean temperature was comparatively small, having been only about 6°. The south central counties recorded the highest mean temperatures, where it was slightly above the normal; the lowest occurred in the extreme north-western portions, where the greatest minus departures were recorded. The period from the 1st to the 4th, inclusive, was the coolest portion of the month and slight frosts were noted at a few places during this time; the highest temperatures were recorded from the 29th to the 31st, inclusive.

The precipitation was heaviest in the extreme north-western portion where it exceeded eight inches over a small area; it decreased gradually eastward to the coast where it was less than two inches, although small areas in the eastern and the southeastern portions received over six inches. General rains occurred on the 1st, 18th to 22nd, and 27th-28th; scattered showers, some of them moderately heavy, fell on the 3rd to 5th, 17th, 25th-26th and 29th to 31st; and light local showers on a number of other days. There were about the usual number of rainy days, and of days with thunderstorms. A few hailstorms occurred, but none was destructive.

## TEMPERATURE.

The mean temperature was 69.5°, which is 1.7 below the normal. The highest local mean was 73.8° at St. George; the lowest was 65.8° at Clemson College. The monthly extremes were 100° at Florence on the 30th, and 35° at Spartanburg on the 2nd, making the state range 65°. The greatest local monthly range

was 59° at Spartanburg, the least was 38° at Charleston. The mean of the daily maximum temperatures was 80.8, and of the daily minimum temperatures 58.2, making the average daily range 22.6.

## PRECIPITATION.

The average precipitation was 4.76 inches, which is 1.03 inches above the normal. The greatest local monthly amount was 8.89 inches at Greenville; the least was 1.54 inches at Charleston. The greatest 24-hour rainfall was 4.85 inches at Greenville on the 1st. The average number of rainy days was 8, ranging from five days at Aiken, Blairs and Clarks Hill to 13 days at Greenville and Santuc.

**EXCESSIVE PRECIPITATION.**—At Camden (1), on the 20th-21st, 2.79 inches in about 15 hours; at Clemson College on the 1st, 3.30 inches in 24 hours; at Greenville, on the 1st, 4.85 inches in 24 hours; at Heath Springs on the 20th, 3.00 inches in 24 hours; at Liberty on the 1st, 3.20 in 24 hours; at Newberry on the 20th, 4.23 inches in 12 hours and 2.00 inches in two hours; at Pelzer on the 20th-21st, 3.06 inches in 19 hours; at Pinopolis on the 27th, 2.81 inches in 24 hours; at Smiths Mills on the 20th-21st, 3.18 inches in 24 hours; at Spartanburg on April 30th; 2.63 inches in six hours; at Trenton on the 18th-19th, 2.67 inches in 24 hours; at Walhalla on the 20th, 3.00 inches in 24 hours; at Walterboro on the 19th-20th, 2.62 inches in about 12 hours; at Winnsboro on the 20th, 3.12 inches in 24 hours; at Winthrop College on the 1st, 3.35 inches in 24 hours.

## WIND.

The prevailing wind was southwest at 18 stations, south at 14, west at 9, southeast at 4, and north, northeast and northwest at one station each.

## CLOUDINESS.

The average number of clear days was 14, of partly cloudy days 12, and of cloudy days five.

## MISCELLANEOUS PHENOMENA.

**DENSE FOGS.**—At Camden on the 27th.

**LIGHT FROSTS.**—At Catawba on the 1st, 11th; at Cheraw on the 12th; at Newberry on the 2nd, 3rd, 4th; at Winthrop College on the 2nd.

**SOLAR HALOS.**—At Camden on the 17th, 25th, 26th; at Santuc on the 17th, 26th.

**LUNAR HALOS.**—At Blackville, Winthrop College on the 27th; at Camden on the 2nd, 3rd; at Charleston on the 1st, 2nd; at Columbia on the 2nd, 28th; at Little Mountain on the 28th.

**HAIL.**—At Batesburg, Camden on the 1st; at Beaufort on the 18th; at Kingstree on the 28th; at Pinopolis on the 17th; at Summerville on the 30th; at Trenton on the 19th.

**HIGH WINDS.**—At Blackville on the 30th; at Camden, Charleston, Cheraw, Columbia, Georgetown, Liberty, Newberry, Winthrop College on the 1st; at Saluda on the 20th.



Pressure and Wind Table, May, 1909.

| Stations.             | Barometric pressure. |          |       |         |       | Wind.           |                 |                   |            |       |
|-----------------------|----------------------|----------|-------|---------|-------|-----------------|-----------------|-------------------|------------|-------|
|                       | Mean.                | Highest. | Date. | Lowest. | Date. | Total movement. | Average hourly. | Maximum velocity. |            |       |
|                       |                      |          |       |         |       |                 |                 | Miles.            | Direction. | Date. |
| Augusta, Ga.          | 29.96                | 30.24    | 2     | 29.66   | 20    | 4274            | 5.7             | 30                | W.         | 1     |
| Charleston            | 29.98                | 30.24    | 13    | 29.68   | 20    | 7313            | 9.8             | 30                | W.         | 1     |
| Charlotte, N. C.      | 29.97                | 30.27    | 13    | 29.64   | 1     | 4758            | 6.5             | 30                | SW.        | 1     |
| Columbia              | 29.96                | 30.26    | 2     | 29.65   | 20    | 4764            | 6.4             | 30                | W.         | 1     |
| Savannah, Ga.         | 29.99                | 30.      | 2     | 29.67   | 20    | 4938            | 6.5             | 30                | SW.        | 20    |
| Wilmington, N. C.     | 29.98                | 30.19    | 3     | 29.65   | 21    | 6506            | 8.7             | 42                | SW.        | 1     |
| Averages or extremes. | 29.97                | 30.29    | 3     | 29.64   | 1     | 5426            | 7.2             | 42                | SW.        | 1     |

Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest monthly mean. | Year. | Lowest monthly mean. | Year. | Greatest monthly. | Year. | Least monthly. | Year. |
| January   | 53                    | 1907  | 37                   | 1897  | 10.60             | 1906  | 0.58           | 1907  |
| February  | 54                    | 1890  | 37                   | 1905  | 9.46              | 1900  | 0.60           | 1898  |
| March     | 61                    | 1907  | 46                   | 1891  | 10.60             | 1891  | 1.82           | 1905  |
| April     | 66                    | 1891  | 53                   | 1907  | 8.40              | 1897  | 0.87           | 1902  |
| May       | 70                    | *1899 | 65                   | 1897  | 8.70              | 1905  | 0.70           | 1903  |
| June      | 77                    | *1890 | 70                   | 1903  | 15.19             | 1900  | 1.85           | 1893  |
| July      | 81                    | 1907  | 75                   | 1891  | 13.87             | 1906  | 1.67           | 1898  |
| August    | 80                    | 1900  | 74                   | *1897 | 17.03             | 1901  | 2.13           | 1900  |
| September | 76                    | 1906  | 67                   | 1902  | 14.37             | 1906  | 0.80           | 1897  |
| October   | 64                    | 1900  | 56                   | 1889  | 5.45              | 1893  | 0.00           | 1904  |
| November  | 53                    | 1906  | 44                   | 1901  | 6.70              | 1907  | 0.36           | 1901  |
| December  | 56                    | 1889  | 38                   | 1901  | 9.78              | 1905  | 0.55           | 1896  |

River Gage Readings, May, 1909.

| Stations.        | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|------------------|--------------|-------|----------|-------|---------|-------|
| Blairs           | 14           | 3.7   | 11.5     | 2     | 1.0     | 20    |
| Calhoun Falls.   | 15           | 3.9   | 9.2      | 2     | 2.8     | *17   |
| Camden           | 24           | 14.5  | 30.0     | 23    | 8.0     | 17    |
| Catawba          | 11           | 5.3   | 15.7     | 22    | 2.6     | 15    |
| Chappells        | 14           | 6.8   | 14.6     | 4     | 3.2     | 17    |
| Cheraw           | 27           | 10.8  | 30.7     | 23    | 3.0     | *19   |
| Columbia         | 15           | 4.1   | 12.8     | 2     | 1.0     | *16   |
| Conway           | 7            | 2.9   | 4.9      | 31    | 1.9     | 18    |
| Effingham        | 12           | 5.3   | 9.6      | 31    | 3.8     | *18   |
| Ferguson         | 12           | 12.3  | 14.7     | -     | 9.8     | 21    |
| Kingstree        | 12           | 2.1   | 4.1      | *26   | 0.1     | *17   |
| Mt. Holly, N. C. | 15           | 3.0   | 9.0      | 21    | 2.0     | *7    |
| Pelzer           | 7            | 4.6   | 6.8      | 1     | 3.8     | *19   |
| Rimini           | 12           | 12.2  | 16.2     | 27    | 8.6     | 19    |
| Smiths Mills.    | 16           | 10.0  | 14.2     | 31    | 6.0     | 21    |

\* Other dates also.

CLIMATOLOGY OF WALHALLA, S. C.

Temperature.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|------|------|------|------|------|-------|-------|------|-------|------|------|------|-------|
| 1889. | 51   | 54   | 51   | 62   | 67   | 77    | 77    | 70   | 56    | 51   | 56   | 43   | 61.9  |
| 1890. | 41   | 49   | 46   | 66   | 77   | 76    | 75    | 75   | 57    | 49   | 45   | 59.0 | 58.7  |
| 1891. | 41   | 47   |      |      |      |       |       |      |       |      |      |      | 59.4  |
| 1892. |      |      |      |      |      |       |       |      |       |      |      |      | 57.1  |
| 1893. |      |      |      |      |      |       |       |      |       |      |      |      |       |
| 1894. |      |      |      |      |      |       |       |      |       |      |      |      |       |
| 1895. |      |      |      |      |      |       |       |      |       |      |      |      |       |
| 1896. |      |      |      |      |      |       |       |      |       |      |      |      |       |
| 1897. | 37   | 45   | 51   | 58   | 65   | 76    | 78    | 71   | 59    | 42   | 43   | 58.9 | 59.0  |
| 1898. | 44   | 41   | 54   | 54   | 69   | 76    | 76    | 71   | 58    | 46   | 42   | 59.0 | 58.7  |
| 1899. | 40   | 38   | 50   | 57   | 70   | 76    | 76    | 68   | 61    | 51   | 40   | 58.7 | 59.4  |
| 1900. | 40   | 40   | 48   | 60   | 66   | 72    | 77    | 80   | 73    | 64   | 52   | 43   | 59.4  |
| 1901. | 42   | 41   | 50   | 53   | 67   | 74    | 78    | 74   | 68    | 58   | 44   | 38   | 57.1  |
| 1902. | 38   | 38   | 49   | 57   |      | 75    | 77    | 76   | 67    |      |      |      |       |
| 1903. | 40   | 45   |      |      | 69   | 70    | 78    | 76   | 70    | 60   | 48   | 41   |       |
| 1904. | 38   | 42   | 53   | 55   | 67   | 74    | 76    | 76   | 72    | 60   | 51   | 42   | 58.7  |
| 1905. | 39   | 37   | 57   | 60   | 70   | 77    | 77    | 74   | 75    | 60   |      | 42   |       |
| 1906. | 44   | 45   | 48   |      | 69   | 76    | 77    | 79   | 76    | 61   | 53   | 47   |       |
| 1907. | 53   | 45   | 61   | 53   | 67   | 72    | 81    | 78   | 71    | 63   | 50   | 42   | 61.4  |
| 1908. | 42   | 41   |      |      |      |       |       |      |       |      |      |      |       |
| M'ns  | 42.0 | 43.2 | 51.5 | 57.7 | 67.8 | 74.6  | 77.0  | 76.6 | 70.8  | 59.8 | 47.6 | 43.3 | 59.3  |

Precipitation.

| Year. | Jan.  | Feb. | Mar.  | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|-------|------|-------|------|------|-------|-------|-------|-------|------|------|------|-------|
| 1889. |       |      |       |      |      | 8.20  |       |       | 7.37  | 0.32 | 5.33 | 0.78 |       |
| 1890. | 2.75  | 6.03 | 2.98  | 3.45 | 7.55 | 5.68  | 4.42  | 9.50  |       | 0.55 | 2.85 |      |       |
| 1891. | 5.58  | 5.74 | 10.60 |      | 2.75 | 4.54  | 5.48  | 6.75  |       | 5.2  | 2.60 |      |       |
| 1892. | 3.84  |      |       |      |      |       |       |       |       |      |      |      |       |
| 1893. |       |      |       |      |      |       |       |       |       |      |      |      |       |
| 1894. |       |      |       |      |      |       |       |       |       |      |      |      |       |
| 1895. |       |      |       |      |      |       |       |       |       |      |      |      |       |
| 1896. |       |      |       |      |      |       |       |       |       |      |      |      |       |
| 1897. | 4.00  | 6.43 | 7.08  | 8.40 | 1.20 | 3.01  | 3.33  | 3.47  | 0.80  | 4.07 | 3.72 | 4.11 | 49.62 |
| 1898. | 4.03  | 0.60 | 5.07  | 4.54 | 1.28 | 1.85  | 9.00  | 7.69  | 5.38  | 5.45 | 3.20 | 5.45 | 53.54 |
| 1899. | 4.60  | 6.51 | 8.55  | 3.37 | 1.20 | 2.80  | 3.47  | 2.90  | 1.05  | 3.69 | 2.40 | 3.48 | 44.30 |
| 1900. | 2.86  | 9.46 | 4.50  | 6.88 | 1.26 | 15.19 | 1.67  | 2.13  | 4.20  | 5.19 | 3.46 | 4.04 | 60.92 |
| 1901. | 5.12  | 2.95 | 8.24  | 7.55 | 5.26 | 5.60  | 2.84  | 17.03 | 4.22  | 0.55 | 0.36 | 7.41 | 65.73 |
| 1902. | 3.65  | 7.58 | 4.75  | 0.87 | 1.95 | 2.47  | 2.90  | 3.35  | 7.40  | 3.59 | 4.60 | 6.12 | 49.14 |
| 1903. | 2.40  | 7.20 | 10.00 | 5.40 | 0.70 | 3.00  | 2.41  | 7.10  | 5.69  | 2.35 | 1.60 | 2.92 | 51.07 |
| 1904. | 3.40  | 4.05 | 5.52  | 1.70 | 4.67 | 4.71  | 4.95  | 10.46 | 1.05  | 0.00 | 3.32 | 4.47 | 48.30 |
| 1905. | 4.84  | 5.65 | 1.82  | 2.92 | 8.70 | 6.30  | 13.60 | 8.00  | 2.56  | 4.95 | 1.92 | 4.78 | 71.04 |
| 1906. | 10.60 | 1.56 | 10.2  | 2.10 | 2.82 | 7.80  | 13.87 | 7.67  | 14.37 | 5.44 | 2.36 | 7.71 | 86.55 |
| 1907. | 0.58  | 3.89 | 2.83  | 5.07 | 4.53 | 4.55  | 5.40  | 4.07  | 4.69  | 1.85 | 6.70 | 8.60 | 53.36 |
| 1908. | 8.16  |      |       |      |      |       |       |       |       |      |      |      |       |
| M'ns  | 4.21  | 5.24 | 6.33  | 4.40 | 3.54 | 4.94  | 6.06  | 6.29  | 5.05  | 3.00 | 3.20 | 4.39 | 56.65 |

## ERRATA.

In the March, 1909, Monthly Report, the following changes should be made, namely, on page 21, at Allendale, the monthly mean temperature 68.9, should be 69.3; at Newberry, the monthly mean temperature, 52.8, should be 53.0; at St. Matthews, the monthly mean temperature 53.1, should be 53.4; and on pages 21 and 24, at Winnsboro, the total precipitation 5.00, should be 4.99. On page 22, at Bowman, the mean minimum 40.6, should be 42.6; at Conway, on the 29th, the minimum 60, should be 58, and the mean minimum 44.8, should be 44.7; at Florence on the 10th, the minimum 59, should be 60; at Newberry on the 12th, the maximum 48, should be 57, and the mean maximum 63.5, should be 63.8.

COMPARATIVE MAY DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          |          | Precipitation.    |                  |                |               | Number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------|-------------------|------------------|----------------|---------------|--------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average. | Greatest Monthly. |                  | Least Monthly. |               |                    |                            |
|           |              |               |               |          |          |          | Amount.           | Place.           | Amount.        | Place.        |                    |                            |
| 1894..... | 70.7         | 80.8          | 60.6          | 98       | 38       | 3.43     | 6.48              | St. Stephens.    | 1.20           | Trenton.      | 9                  | SW.                        |
| 1895..... | 69.0         | 79.0          | 59.5          | 101      | 34       | 4.36     | 9.94              | Greenwood.       | 1.48           | Port Royal.   | 9                  | SW.                        |
| 1896..... | 76.7         | 88.6          | 65.7          | 104      | 42       | 2.74     | 6.07              | Pinopolis.       | 0.52           | Charleston.   | 8                  | SW.                        |
| 1897..... | 69.3         | 81.3          | 57.3          | 97       | 38       | 2.39     | 5.17              | St. Stephens.    | 0.88           | St. George.   | 6                  | SW.                        |
| 1898..... | 73.8         | 86.5          | 61.2          | 106      | 39       | 1.35     | 6.31              | Trial.           | 0.55           | Central.      | 5                  | SW.                        |
| 1899..... | 73.7         | 85.3          | 62.1          | 100      | 45       | 1.68     | 3.72              | Pinopolis.       | 0.53           | Camden.       | 5                  | SW.                        |
| 1900..... | 70.2         | 81.8          | 58.5          | 96       | 38       | 2.37     | 4.99              | Yorkville.       | 1.17           | Society Hill. | 5                  | SW.                        |
| 1901..... | 71.6         | 82.6          | 60.2          | 99       | 40       | 7.31     | 13.08             | Winthrop College | 2.17           | Beaufort.     | 11                 | SW.                        |
| 1902..... | 74.0         | 85.5          | 62.4          | 101      | 42       | 2.69     | 6.53              | Temperance.      | 0.40           | Liberty.      | 8                  | SW.                        |
| 1903..... | 70.7         | 80.8          | 60.6          | 104      | 44       | 2.69     | 11.97             | Beaufort.        | 0.25           | Liberty.      | 9                  | NE.                        |
| 1904..... | 70.7         | 83.7          | 57.4          | 99       | 38       | 2.04     | 14.67             | Walhalla.        | 0.32           | Semter.       | 7                  | S.                         |
| 1905..... | 73.4         | 83.2          | 63.5          | 99       | 42       | 5.70     | 9.50              | Smiths Mills.    | 2.95           | Batesburg.    | 13                 | SW.                        |
| 1906..... | 70.7         | 81.4          | 60.0          | 99       | 30       | 3.00     | 5.30              | Calhoun Falls.   | 1.50           | Bowman.       | 7                  | SW.                        |
| 1907..... | 70.8         | 80.8          | 60.8          | 96       | 41       | 4.51     | 8.97              | Bowman.          | 1.98           | Barksdale.    | 10                 | SW.                        |
| 1908..... | 71.8         | 83.9          | 59.8          | 96       | 36       | 2.92     | 7.06              | Beaufort.        | 0.70           | Greenwood.    | 7                  | SW.                        |
| 1909..... | 69.5         | 80.8          | 58.2          | 100      | 35       | 4.76     | 8.89              | Greenville       | 1.54           | Charleston    | 8                  | SW.                        |



## CLIMATOLOGICAL DATA FOR THE MONTH OF MAY, 1909.

| STATIONS                  | Counties     | Elevation<br>feet. | Length of record<br>years. | Temperature—in degrees Fahrenheit. |                               |          |       |         |       | Precipitation—in inches. |        |                               |                          |                              | Sky.                  |                       |                               |                        |                                  | Observers.             |
|---------------------------|--------------|--------------------|----------------------------|------------------------------------|-------------------------------|----------|-------|---------|-------|--------------------------|--------|-------------------------------|--------------------------|------------------------------|-----------------------|-----------------------|-------------------------------|------------------------|----------------------------------|------------------------|
|                           |              |                    |                            | Mean.                              | Departure from<br>the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily<br>range. | Total. | Departure from<br>the normal. | Greatest in 24<br>hours. | Total snowfall<br>in melted. | Number rainy<br>days. | Number clear<br>days. | Number partly<br>cloudy days. | Number cloudy<br>days. | Prevailing direction<br>of wind. |                        |
| Aiken                     | Aiken        | 308                | 28                         | 71.8                               | +0.1                          | 97       | 29    | 40      | 2     | 35                       | 3.73   | -0.19                         | 1.10                     | 0                            | 8                     | 23                    | 4                             | 4                      | sw.                              | C. F. McGahan, M. D.   |
| Allendale                 | Barnwell     | 186                | 21                         | 73.2                               | +0.2                          | 94       | 26    | 46      | 2     | 38                       | 3.14   | -0.10                         | 1.04                     | 0                            | 7                     | 23                    | 2                             | 6                      | sw.                              | A. R. Hiers.           |
| Anderson                  | Anderson     | 704                | 8                          | 67.8                               | -2.2                          | 91       | 30    | 37      | 2     | 31                       | 5.3    | +1.23                         | 1.61                     | 0                            | 12                    | 16                    | 2                             | 13                     | w.                               | H. H. Russell.         |
| Augusta, Ga.              | Richmond     | 180                | 38                         | 70.6                               | +1.0                          | 93       | 30    | 45      | 2     | 30                       | 3.43   | -0.20                         | 1.73                     | 0                            | 9                     | 8                     | 14                            | 9                      | se.                              | U. S. Weather Bureau.  |
| Barksdale                 | Laurens      | 134                | 8                          |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | J. T. Garrett.         |
| Batesburg                 | Lexington    | 656                | 21                         | 68.1                               | -3.6                          | 90       | 29    | 40      | 2     | 36                       | 3.94   | -0.24                         | 1.58                     | 0                            | 8                     | 14                    | 8                             | 9                      | h.                               | E. J. Hite.            |
| Beaufort                  | Beaufort     | 20                 | 23                         | 73.2                               | +0.7                          | 94       | 20    | 52      | 2     | 30                       | 2.83   | -0.52                         | 1.00                     | 0                            | 7                     | 9                     | 20                            | 2                      | sw.                              | Miss Lillian H. Rice.  |
| Bennettsville             | Marlboro     | 151                | 8                          | 70.4                               |                               | 94       | 30    | 42      | 1     | 35                       | 1.87   |                               | 1.10                     | 0                            | 6                     | 17                    | 10                            | 4                      | sw.                              | C. S. McCall.          |
| Blackville                | Barnwell     | 206                | 21                         | 72.2                               | +1.5                          | 95       | 28    | 43      | 1     | 35                       | 3.08   | -0.74                         | 0.95                     | 0                            | 9                     | 10                    | 13                            | 5                      | sw.                              | Miss M. E. Lange.      |
| Blains                    | Fairfield    | 293                | 4                          |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | T. S. McMeekin.        |
| Bowman                    | Orangeburg   | 160                | 8                          |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | B. O. Evans.           |
| Calhoun Falls             | Abbeville    | 508                | 10                         |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | P. J. Pfeiffer.        |
| Camden (1)                | Kershaw      | 3                  | 3                          | 69.1                               |                               | 90       | 17    | 42      | 2     | 29                       | 5.01   |                               | 2.79                     | 0                            | 10                    | 14                    | 11                            | 6                      | sw.                              | J. B. Mickle.          |
| Camden (2)                | Kershaw      | 222                | 43                         |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | W. C. Brown.           |
| Catawba                   | York         | 562                | 4                          |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | Jas. C. Farris.        |
| Chappells                 | Newberry     | 402                | 4                          |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | M. C. Rivers.          |
| Charleston                | Charleston   | 48                 | 39                         | 71.6                               | +0.8                          | 90       | 29    | 52      | 2     | 19                       | 1.54   | +1.93                         | 0.59                     | 0                            | 5                     | 11                    | 14                            | 6                      | sw.                              | U. S. Weather Bureau.  |
| Charlotte, N. C.          | Mecklenburg  | 773                | 31                         | 66.8                               | -1.6                          | 80       | 30    | 42      | 2     | 29                       | 5.65   | +1.73                         | 3.80                     | 0                            | 8                     | 10                    | 14                            | 7                      | sw.                              | U. S. Weather Bureau.  |
| Cheraw (1)                | Chesterfield | 144                | 21                         | 68.6                               | -2.2                          | 89       | 16    | 42      | 2     | 35                       | 3.55   | -0.33                         | 1.21                     | 0                            | 8                     | 14                    | 8                             | 9                      | sw.                              | W. R. Godfrey.         |
| Cheraw (2)                | Chesterfield | 144                | 16                         |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | Jno. H. Powe.          |
| Clarks Hill               | Edgefield    | 456                | 7                          | 63.4                               |                               | 90       | 28    | 47      | 23    | 27                       | 3.41   |                               | 1.25                     | 0                            | 5                     |                       |                               |                        |                                  | Wm. S. Middleton.      |
| Clemson College           | Oconee       | 850                | 18                         | 65.8                               | -4.2                          | 85       | 30    | 36      | 3     | 28                       | 6.84   | -3.83                         | 3.30                     | 0                            | 6                     | 20                    | 5                             | 6                      | sw.                              | Prof. Jno. N. Hook.    |
| Columbia                  | Richland     | 351                | 22                         | 69.6                               | -2.2                          | 92       | 29    | 43      | 2     | 28                       | 4.28   | +1.09                         | 1.35                     | 0                            | 10                    | 8                     | 18                            | 5                      | sw.                              | U. S. Weather Bureau.  |
| Conway                    | Horry        | 25                 | 17                         | 69.4                               |                               | 91       | 29    | 47      | 2     | 34                       | 4.72   | +1.20                         | 1.35                     | 0                            | 8                     | 15                    | 2                             | 14                     | sw.                              | P. C. Quattlebaum.     |
| Darlington                | Darlington   | 175                | 14                         |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | D. C. McCall.          |
| Dillon                    | Marion       | 100                | 5                          |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | A. E. Rowell.          |
| Ellingham                 | Florence     | 106                | 17                         |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | H. B. McCall.          |
| Ferguson                  | Berkeley     | 51                 | 2                          |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | D. B. Gilliland, Jr.   |
| Florence                  | Florence     | 136                | 21                         | 73.1                               | +0.5                          | 100      | 30    | 43      | 2     | 40                       | 3.85   | +0.13                         | 2.00                     | 0                            | 6                     | 21                    | 4                             | 6                      | sw.                              | H. K. Gilbert.         |
| Georgetown                | Georgetown   | 12                 | 16                         | 71.2                               | +0.8                          | 90       | 29    | 50      | 1     | 28                       | 2.44   | -0.61                         | 0.82                     | 0                            | 6                     | 14                    | 12                            | 5                      | sw.                              | Wm. Alden James.       |
| Greenville                | Greenville   | 989                | 17                         | 65.9                               | -1.6                          | 85       | 30    | 39      | 3     | 30                       | 8.89   | +5.02                         | 4.85                     | 0                            | 13                    | 18                    | 3                             | 10                     | sw.                              | Mrs. S. A. Crittenden. |
| Greenwood                 | Greenwood    | 671                | 21                         | 69.1                               | -2.4                          | 93       | 30    | 40      | 2     | 33                       | 5.50   | +1.72                         | 2.10                     | 0                            | 7                     | 20                    | 0                             | 11                     | w.                               | M. M. Calhoun.         |
| Heath Springs             | Lancaster    | 568                | 8                          | 68.5                               |                               | 92       | 31    | 40      | 2     | 34                       | 7.36   |                               | 3.00                     | 0                            | 9                     | 16                    | 10                            | 5                      | w.                               | J. A. Weaner.          |
| Jacksonboro               | Colleton     | 13                 | 1                          | 68.2                               |                               | 93       | 30    | 50      | 4     | 28                       | 3.05   |                               | 1.21                     | 0                            | 5                     | 11                    | 15                            | 5                      | sw.                              | W. E. Haskell, jr.     |
| Kingstree (1)             | Williamsburg | 54                 | 21                         | 70.4                               | -1.8                          | 89       | 30    | 48      | 3     | 28                       | 3.51   | +0.56                         | 1.00                     | 0                            | 9                     | 20                    | 4                             | 7                      | sw.                              | A. A. Scott.           |
| Kingstree (2)             | Williamsburg | 54                 | 15                         |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | J. A. Matthews.        |
| Liberty                   | Pickens      | 900                | 15                         | 68.3                               | -2.4                          | 90       | 30    | 36      | 3     | 35                       | 7.90   | +4.76                         | 3.20                     | 0                            | 10                    | 16                    | 12                            | 3                      | sw.                              | Jno. T. Boggs.         |
| Little Mountain           | Newberry     | 711                | 16                         | 69.0                               | -3.3                          | 90       | 29    | 38      | 2     | 33                       | 4.86   | +1.83                         | 2.11                     | 0                            | 6                     | 17                    | 11                            | 3                      | w.                               | J. M. Sease, M. D.     |
| Newberry                  | Newberry     | 502                | 5                          | 69.7                               | -1.6                          | 95       | 29    | 38      | 2     | 36                       | 5.08   | +2.51                         | 4.23                     | 0                            | 9                     | 9                     | 13                            | 9                      | sw.                              | W. G. Peterson.        |
| Pelzer                    | Anderson     | 873                | 4                          |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | John M. Ward.          |
| Pinopolis                 | Berkeley     | 54                 | 16                         | 68.9                               | +1.0                          | 89       | 30    | 54      | 13    |                          | 7.33   | +3.62                         | 2.81                     | 0                            | 9                     | 11                    | 7                             | 13                     | sw.                              | Miss E. P. Ravenel.    |
| St. George                | Dorchester   | 109                | 21                         | 73.8                               | +1.2                          | 93       | 29    | 50      | 3     | 29                       | 3.05   | -0.38                         | 1.10                     | 0                            | 8                     | 26                    | 0                             | 5                      | sw.                              | G. T. Lewis.           |
| St. Matthews              | Calhoun      | 209                | 21                         | 68.6                               | -3.6                          | 80       | 30    | 45      | 2     | 28                       | 5.27   | +1.40                         | 1.80                     | 0                            | 8                     | 21                    | 0                             | 10                     | sw.                              | J. S. Wannamaker.      |
| Saluda                    | Saluda       | 530                | 7                          | 70.2                               |                               | 93       | 29    | 40      | 2     | 35                       | 3.98   |                               | 1.47                     | 0                            | 7                     | 21                    | 3                             | 6                      | sw.                              | Alvin Etheridge.       |
| Santee                    | Union        | 512                | 15                         | 67.8                               | -2.3                          | 92       | 30    | 39      | 2     | 35                       | 6.38   | +3.34                         | 2.04                     | 0                            | 13                    | 8                     | 17                            | 6                      | sw.                              | E. W. Jeter.           |
| Savannah, Ga.             | Chatham      | 71                 | 39                         | 71.8                               | +0.7                          | 90       | 30    | 52      | 2     | 26                       | 4.29   | +1.29                         | 1.59                     | 0                            | 9                     | 9                     | 15                            | 7                      | sw.                              | U. S. Weather Bureau.  |
| Smiths Hill               | Williamsburg | 62                 | 14                         |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | W. G. Walker.          |
| Society Hill              | Darlington   | 192                | 18                         | 68.6                               | -2.6                          | 89       | 30    | 43      | 2     | 32                       | 3.68   | +0.17                         | 1.00                     | 0                            | 7                     | 16                    | 9                             | 6                      | sw.                              | Major J. J. Lucas.     |
| Spartanburg               | Spartanburg  | 875                | 18                         | 68.4                               | -2.1                          | 94       | 31    | 35      | 2     | 39                       | 7.13   | -2.97                         | 2.63                     | 0                            | 9                     | 13                    | 0                             | 18                     | sw.                              | F. P. Robinson.        |
| Stateburg                 | Sumter       | 500                | 32                         |                                    |                               |          |       |         |       |                          |        |                               |                          |                              |                       |                       |                               |                        |                                  | W. W. Anderson, M. D.  |
| Summerville               | Dorchester   | 75                 | 12                         | 70.4                               | -1.3                          | 93       | 20    | 45      | 2     | 33                       | 2.60   | -0.90                         | 0.63                     | 0                            | 10                    | 6                     | 23                            | 2                      | sw.                              | Miss E. H. Gadsden.    |
| Trenton                   | Edgefield    | 620                | 16                         | 68.0                               | -5.0                          | 96       | 10    | 40      | 2     | 38                       | 7.86   | +5.01                         | 2.67                     | 0                            | 7                     | 12                    | 14                            | 5                      | sw.                              | C. A. Long.            |
| Trial                     | Berkeley     | 85                 | 23                         | 69.3                               | -1.3                          | 92       | 29    | 43      | 2     | 34                       | 3.26   | -1.20                         | 1.14                     | 0                            | 9                     | 7                     | 20                            | 4                      | w.                               | Etsell Gaillard.       |
| Walhalla                  | Oconee       | 1001               | 18                         | 66.0                               | -1.8                          | 80       | 29    | 39      | 2     | 33                       | 7.10   | -3.56                         | 3.00                     | 0                            | 9                     | 18                    | 6                             | 7                      | sw.                              | N. L. Fant.            |
| Walterboro                | Colleton     | 69                 | 5                          | 71.6                               |                               | 95       | 29    | 47      | 2     | 34                       | 6.73   |                               | 2.54                     | 0                            | 11                    | 16                    | 12                            | 3                      | sw.                              | J. A. Westerberg.      |
| Wilmington, N. C.         | New Hanover  | 78                 | 39                         | 69.3                               | +0.2                          | 88       | 18    | 48      | 2     | 23                       | 3.07   | -0.96                         | 1.54                     | 0                            | 6                     | 13                    | 13                            | 5                      | sw.                              | U. S. Weather Bureau.  |
| Winnboro                  | Fairfield    | 545                | 20                         | 60.1                               | -2.4                          | 89       | 18    | 49      | 4     | 20                       | 5.33   | +1.98                         | 3.12                     | 0                            | 9                     | 20                    | 10                            | 1                      | sw.                              | John W. Seigler.       |
| Winthrop College          | York         | 690                | 10                         | 68.0                               |                               | 80       | 30    | 40      | 2     | 30                       | 8.30   |                               | 3.35                     | 0                            | 10                    | 19                    | 7                             | 5                      | sw.                              | E. R. Rivers.          |
| Yemassee                  | Hampton      | 23                 | 14                         | 71.4                               | -2.4                          | 95       | 29    | 47      | 2     | 37                       | 1.81   | +1.89                         | 0.55                     | 0                            | 8                     | 16                    | 6                             | 9                      | sw.                              | J. G. Hutson.          |
| Means, extremes and dates |              |                    |                            | 69.5                               | -1.7                          | 100      | 30    | 35      | 2     | 40                       | 4.76   | +1.03                         | 4.85                     | 0                            | 8                     | 14                    | 12                            | 5                      | sw.                              |                        |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed non-registering thermometer not standard. \* On other dates also. a. Indicates 1 day missing; b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING MAY, 1909.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs.





**SHADES OF SHADES IN INCHES.**

|                     |              |
|---------------------|--------------|
| [White box]         | Less than 2  |
| [Horizontal lines]  | 2 to 4.      |
| [Cross-hatch]       | 4 to 6.      |
| [Dense cross-hatch] | 6 to 8.      |
| [Solid red]         | More than 8. |



## DAILY PRECIPITATION FOR SOUTH CAROLINA, MAY, 1909.

| STATIONS.         | DAY OF MONTH. |     |     |     |     |     |   |   |      |      |     |     |    |    |    |     |     |      |      |      |      |      |     |     |     |     |      |      |     |      |      | TOTAL. |      |
|-------------------|---------------|-----|-----|-----|-----|-----|---|---|------|------|-----|-----|----|----|----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|------|------|-----|------|------|--------|------|
|                   | 1             | 2   | 3   | 4   | 5   | 6   | 7 | 8 | 9    | 10   | 11  | 12  | 13 | 14 | 15 | 16  | 17  | 18   | 19   | 20   | 21   | 22   | 23  | 24  | 25  | 26  | 27   | 28   | 29  | 30   | 31   |        |      |
| Aiken             | 1.10          |     |     |     |     |     |   |   |      |      |     |     |    |    |    |     |     |      |      | .81  | .96  |      |     |     |     |     |      | .74  |     |      | .12  | 3.73   |      |
| Allendale*        | .57           | .16 |     |     |     |     |   |   |      |      |     |     |    |    |    |     |     |      |      | .55  | 1.04 | .35  | .15 |     |     |     |      | .32  |     |      | 3.14 |        |      |
| Anderson          | 1.39          |     |     |     |     |     |   |   |      | .75  |     |     |    |    |    | .02 |     |      |      | 2    | 1.61 | .16  | .12 |     | .02 | .10 |      | .13  |     |      | .65  | 5.21   |      |
| Augusta, Ga.      | .80           |     |     |     | .01 |     |   |   |      | .01  |     |     |    |    |    |     |     | T.   | .22  | 1.73 | .15  |      |     | .01 | .01 | .30 |      |      |     | .20  | T.   | 3.43   |      |
| Barksdale         |               |     |     |     |     |     |   |   |      |      |     |     |    |    |    |     |     |      |      |      |      |      |     |     |     |     |      |      |     |      |      |        |      |
| Batesburg*        | 1.58          |     |     |     |     |     |   |   |      | .20  |     |     |    |    |    |     |     |      |      | .06  | .67  | .41  |     |     |     |     |      | .55  | .07 |      | .40  | 3.94   |      |
| Beaufort          | .27           |     | .03 |     | T.  |     |   |   |      | .38  |     |     |    |    |    |     |     | 1.00 |      |      |      | .39  |     |     |     |     |      | .37  |     |      |      | 2.83   |      |
| Bennettsville     | T.            |     |     |     |     |     |   |   | T.   | .28  |     |     |    |    |    |     |     |      | .20  | 1.10 | .08  | .17  |     |     |     | .04 | T.   | T.   |     |      | 1.87 |        |      |
| Blackville*       | .10           |     |     |     |     |     |   |   | .87  | T.   |     |     |    |    |    |     |     | T.   | .06  | .04  | .92  | .10  |     |     | T.  |     |      | .29  |     | .14  | .56  | 3.08   |      |
| Blairs*           | 2.04          |     |     |     |     |     |   |   |      | .10  |     |     |    |    |    |     |     |      |      | .30  | 1.10 | .04  |     |     |     |     |      |      |     |      |      | 3.58   |      |
| Bowman            | .68           |     |     |     |     |     |   |   |      | T.   | T.  |     |    |    |    |     | .15 | .21  | .71  | .68  |      |      |     |     |     |     | .16  |      |     | .12  | 2.87 | 3.58   |      |
| Calhoun Falls*    | 1.55          |     |     |     |     | .11 |   |   |      | .32  |     |     |    |    |    |     |     |      |      | 2.05 | .72  | .49  |     |     |     |     |      | .32  |     |      |      | 5.56   |      |
| Camden (1)        | .91           |     |     |     | .03 |     |   |   | .09  | .13  |     |     |    |    |    |     |     | T.   | .15  | .43  | 2.79 | .08  |     |     |     |     |      | .19  | .21 | T.   | T.   | 5.01   |      |
| Camden (2)*       | 1.06          |     |     |     |     |     |   |   |      | .18  |     | .08 |    |    |    |     |     |      |      | .04  | 1.68 | .04  |     |     |     |     |      | .30  |     | .32  |      | 3.70   |      |
| Catawba*          | 1.58          |     |     |     |     |     |   |   |      | .66  |     |     |    |    |    |     |     |      |      |      | .04  | 1.86 | .02 |     |     |     |      | .86  |     | .20  | 1.06 | 6.88   |      |
| Chappells*        | .94           |     |     |     |     |     |   |   |      | .10  |     |     |    |    |    |     |     |      |      | .09  |      |      |     |     |     |     |      | .24  |     |      |      | 3.72   |      |
| Charleston        | .35           |     | .08 |     |     |     |   |   | T.   | T.   |     |     |    |    |    |     |     | T.   | .43  | .09  |      |      |     |     | T.  | T.  |      | .59  |     | T.   | 1.04 |        |      |
| Charlotte, N. C.  | .22           |     |     |     |     |     |   |   |      | .73  |     |     |    |    |    |     |     | T.   | .14  | 3.81 | .19  | T.   |     | T.  |     | .18 | .14  |      | T.  | .24  |      | 1.54   |      |
| Cheraw (1)*       | .88           |     |     |     |     |     |   |   | T.   | T.   |     |     |    |    |    |     |     | T.   |      |      | .36  | 1.21 | .04 | .12 |     |     | T.   | .18  |     |      |      | 3.55   |      |
| Cheraw (2)*       | .87           | .02 |     |     |     |     |   |   |      | .55  | .21 |     |    |    |    |     |     |      |      | .32  | 1.22 | .04  |     |     |     | T.  | .17  | T.   |     |      |      | 3.58   |      |
| Clarks Hill       |               |     |     |     |     |     |   |   | T.   | T.   |     |     |    |    |    |     |     | .41  | T.   | 1.00 | .48  |      |     |     |     |     | .2   |      | 1.2 |      |      | 3.41   |      |
| Clemson College   | 3.30          |     |     |     |     |     |   |   |      | .93  |     |     |    |    |    |     |     |      | 1.08 | 1.2  | .20  |      |     |     |     |     | .01  | 1.06 |     | T.   | .10  | 6.86   |      |
| Columbia          | .73           |     | .03 | T.  |     |     |   |   |      | .57  |     |     |    |    |    |     |     | T.   | .07  | T.   | 1.01 | .39  | T.  |     |     |     |      |      |     |      |      | 4.28   |      |
| Conway*           | .41           | T.  |     |     |     |     |   |   | .13  | .98  |     |     |    |    |    |     |     | T.   | T.   | .05  | .65  | 1.35 | .68 |     |     |     |      | .47  |     |      |      | 4.72   |      |
| Darlington        |               |     |     |     |     |     |   |   |      |      |     |     |    |    |    |     |     |      |      | .76  | 1.48 | .75  | .07 |     |     |     | .17  | .02  |     |      |      | 4.06   |      |
| Dillon            | .53           |     |     |     |     |     |   |   |      | .20  |     |     |    |    |    |     | .01 |      |      | .76  | 1.48 | .75  | .07 |     |     | .07 |      | .17  | .02 |      |      | 5.84   |      |
| Effingham*        | .75           |     |     |     |     |     |   |   |      | .85  |     |     |    |    |    |     |     |      |      | .24  | .95  | .80  |     |     |     |     |      | .25  |     |      |      | 2.95   |      |
| Ferguson*         | .50           |     | .06 |     |     |     |   |   |      |      |     |     |    |    |    |     |     | .42  | .12  | .40  | .60  | .20  |     |     |     |     |      | .50  |     |      |      | 3.85   |      |
| Florence*         | .60           |     |     |     |     |     |   |   |      |      |     | .14 |    |    |    |     |     |      |      | .94  | 2.00 |      |     |     |     |     |      | .13  | .04 |      |      | 2.44   |      |
| Georgetown        | T.            |     | T.  |     |     |     |   |   | .20  | .90  |     |     |    |    |    |     |     | T.   | .20  | .82  | .12  | T.   |     |     |     |     |      | .20  |     |      |      | 5.50   |      |
| Greenville*       | 4.85          |     |     |     |     | .08 |   |   |      | 1.00 |     |     |    |    |    |     | T.  | .10  |      | .52  | .75  | .27  | .33 | .26 |     | .06 | .38  |      |     | .05  | .24  | 8.89   |      |
| Greenwood*        | 2.10          |     |     |     |     |     |   |   | .18  |      |     |     |    |    |    |     |     |      |      | 1.20 | .81  | .10  |     |     |     |     |      | .24  |     |      |      | 5.50   |      |
| Heath Springs     | .15           |     |     |     |     |     |   |   | .16  | .17  |     |     |    |    |    |     |     |      |      | 2.04 | 3.00 | .36  | .25 |     |     |     | 1.12 | .13  |     |      |      | 7.36   |      |
| Jacksonboro       | .67           |     |     |     |     |     |   |   | .28  |      |     |     |    |    |    |     |     |      |      | 1.21 | .45  | T.   |     |     |     | T.  |      | .44  |     | T.   |      | 3.05   |      |
| Kingstree (1)*    | .05           | T.  |     |     |     |     |   |   |      | .45  |     |     |    |    |    |     |     | T.   | .12  | .07  | .90  | .70  |     |     |     |     |      | 1.00 |     |      | .02  | 3.51   |      |
| Kingstree (2)*    | .39           | T.  |     |     |     |     |   |   |      | .45  |     |     |    |    |    |     |     | .14  | .15  | .20  | .37  |      |     |     |     |     |      | .90  |     |      |      | 2.76   |      |
| Liberty           | 3.20          |     |     | T.  | T.  |     |   |   | .08  | 1.60 |     |     |    |    |    |     | .10 |      |      | T.   | 1.60 | .20  | .37 |     | T.  | .80 | .10  |      |     | T.   | .02  | .10    | 7.90 |
| Little Mountain   | 1.01          |     |     |     |     |     |   |   | .31  |      |     |     |    |    |    |     |     |      |      | 2.11 | .73  | .07  |     |     |     |     | .63  |      |     |      |      | 4.86   |      |
| Newberry          |               |     |     |     |     |     |   |   | .2   |      |     |     |    |    |    |     |     |      | .03  | 4.23 | .40  | .05  |     | T.  |     | .19 |      | .02  | .72 | .09  |      | 5.08   |      |
| Pelzer*           | 2.76          |     |     |     |     |     |   |   | 1.06 |      |     |     |    |    |    |     |     |      |      | .70  | 3.06 | .06  | .10 |     |     |     | .30  |      |     |      | .84  | 8.88   |      |
| Pinopolis         | .10           |     |     |     |     |     |   |   | .70  |      |     |     |    |    |    |     |     | .17  | 1.00 | .10  | 2.00 |      |     |     |     |     | 2.31 |      |     | .45  |      | 7.33   |      |
| St. George*       | .50           |     |     |     |     |     |   |   |      | .05  | .10 | .2  |    |    |    |     |     |      |      | .50  | 1.10 | .2   | .30 | .05 |     |     |      | .30  |     |      | .05  | 3.05   |      |
| St. Matthews*     | .76           |     |     |     |     |     |   |   |      |      |     |     |    |    |    |     |     | .10  |      | .56  | 1.80 | .20  |     |     |     |     | .20  | .12  |     |      | 1.53 | 5.27   |      |
| Saluda            | 1.18          |     |     |     |     |     |   |   | .15  |      |     |     |    |    |    |     |     |      |      | T.   | 1.47 | .15  |     |     |     |     | .29  | .10  |     |      | .64  | 3.98   |      |
| Santuc            | 2.04          |     |     |     | T.  |     |   |   | .01  | 1.19 |     |     |    |    |    |     |     |      | T.   | .16  | 1.49 | .22  | .44 |     | .04 | T.  | .20  | .10  | .17 | .08  | .24  | 6.38   |      |
| Savannah, Ga.     | 1.35          |     | .04 |     |     |     |   |   |      | T.   |     |     |    |    |    |     |     |      | .01  | 1.04 | .06  |      |     |     |     | .01 |      | .07  | .12 | 1.59 | T.   | 4.29   |      |
| Smiths Mills*     |               |     |     | .12 |     |     |   |   | .06  | .67  | .38 |     |    |    |    |     |     |      |      | .18  | 1.06 | 2.78 | .68 |     |     |     |      | .07  | .16 |      | .31  |        | 6.40 |
| Society Hill      |               |     |     |     |     |     |   |   | .63  | .34  |     |     |    |    |    |     |     |      | .37  | 1.00 | 1.00 | .10  |     |     |     | .24 |      |      |     |      |      | 3.68   |      |
| Spartanburg*      | 2.63          |     |     |     | T.  |     |   |   | .95  |      |     |     |    |    |    |     |     | .06  | T.   | .70  | 1.97 | .30  | .14 |     |     |     | .25  |      |     |      |      | 13     | 7.13 |
| Stateburg         |               |     |     |     |     |     |   |   |      |      |     |     |    |    |    |     |     |      |      |      |      |      |     |     |     |     |      |      |     |      |      |        |      |
| Summerville       | .19           |     | .01 | T.  |     |     |   |   | .29  |      |     |     |    |    |    |     |     |      | .43  | .58  | .63  | .13  | T.  |     | .01 |     | T.   | .31  |     | .11  |      | 2.69   |      |
| Trenton           | 1.83          |     |     | T.  |     |     |   |   | .67  |      |     |     |    |    |    |     |     |      | .71  | 1.96 |      |      |     |     |     |     | .59  | .46  |     |      | 1.64 | 7.86   |      |
| Trial             | .62           |     |     |     |     |     |   |   | .04  |      |     |     |    |    |    |     | .14 | .12  | .17  | 1.14 | .17  |      |     |     |     |     | .25  |      |     | .61  |      | 3.26   |      |
| Walhalla          | .38           |     |     |     |     |     |   |   | .12  | .76  |     |     |    |    |    |     | .09 |      |      | .10  | 3.00 | .91  | .36 |     |     | .38 |      |      | T.  | T.   |      | 7.10   |      |
| Walterboro        | .83           |     | T.  |     |     |     |   |   | .70  |      |     |     |    |    |    |     | .89 | .01  | 2.54 | .08  | .41  |      |     |     |     | .10 |      | .08  |     | 1.08 | .01  | 6.73   |      |
| Wilmington, N. C. | .43           |     | T.  |     |     |     |   |   | .19  |      |     |     |    |    |    |     | .08 |      |      | 1.44 | .91  | T.   |     |     |     |     |      | .02  |     |      |      | 3.07   |      |
| Winnboro          |               |     |     | T.  |     |     |   |   | T.   |      |     |     |    |    |    |     |     |      | T.   | 3.12 | .07  | .02  |     | T.  | T.  | .45 | .45  | 1.22 |     |      |      | 5.33   |      |
| Winthrop College  | 3.35          |     |     |     |     |     |   |   | .03  | .89  |     |     |    |    |    |     |     |      |      | .75  | 1.80 | .76  |     |     | T.  |     | .06  | .15  | .39 | T.   |      | 12     | 8.30 |
| Yemassee*         | T.            | .55 |     |     |     |     |   |   |      | .29  |     |     |    |    |    |     |     |      |      | .42  | .06  | .06  | .18 | T.  |     | T.  |      | .21  |     | .04  |      | 1.81   |      |

\* Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.



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U. S. DEPARTMENT OF AGRICULTURE

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REPORT FOR JUNE, 1909.

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SOUTH CAROLINA SECTION

OF THE

CLIMATOLOGICAL SERVICE

OF THE

WEATHER BUREAU

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PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE

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UNDER DIRECTION OF

WILLIS L. MOORE

CHIEF U. S. WEATHER BUREAU

BY

J. W. BAUER

SECTION DIRECTOR



PITTSBURG, PA.

WEATHER BUREAU OFFICE

AUGUST 7, 1909.

[illegible]



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATOLOGICAL SERVICE

OF THE

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INDEX.

|   |                          |
|---|--------------------------|
| April weather . . . . .                     | April, 1906              |
| Climatology of —                            |                          |
| Aiken, S. C. . . . .                        | April, 1909              |
| Anderson, S. C. . . . .                     | July, 1907               |
| Batesburg, S. C. . . . .                    | April, 1908              |
| Beaufort, S. C. . . . .                     | September, 1907          |
| Blackville, S. C. . . . .                   | June, 1908               |
| Charleston, S. C. . . . .                   | April and May, 1907      |
| Cheraw, S. C. . . . .                       | July, 1908               |
| Clemson College, S. C. . . . .              | August, 1907             |
| Columbia, S. C. . . . .                     | February and March, 1907 |
| Florence, S. C. . . . .                     | January, 1909            |
| Georgetown, S. C. . . . .                   | January, 1908            |
| Greenville, S. C. . . . .                   | May, 1908                |
| Greenwood, S. C. . . . .                    | August, 1908             |
| Kingstree, S. C. . . . .                    | September, 1908          |
| Little Mountain, S. C. . . . .              | March, 1908              |
| St. Matthews, S. C. . . . .                 | November, 1908           |
| Santuc, S. C. . . . .                       | February, 1909           |
| Society Hill, S. C. . . . .                 | October, 1907            |
| Spartanburg, S. C. . . . .                  | December, 1907           |
| Stateburg, S. C. . . . .                    | October, 1906            |
| Summerville, S. C. . . . .                  | June, 1909               |
| Trenton, S. C. . . . .                      | November, 1907           |
| Trial, S. C. . . . .                        | February, 1908           |
| Walhalla, S. C. . . . .                     | May, 1909                |
| Winnsboro, S. C. . . . .                    | October, 1908            |
| Yemassee, S. C. . . . .                     | March, 1909              |
| Yorkville, S. C. . . . .                    | December, 1908           |
| February weather . . . . .                  | February, 1906           |
| Hail storms in June . . . . .               | June, 1906               |
| Hail storms in July . . . . .               | July, 1906               |
| January weather . . . . .                   | January, 1906            |
| June weather . . . . .                      | June, 1906               |
| March weather . . . . .                     | March, 1906              |
| May weather . . . . .                       | May, 1906                |
| Precipitation data at Camden, S. C. . . . . | June, 1907               |

NOTE: The Index from August, 1898, to Annual, 1905, was published in the Annual for 1905.

NEW FORM OF PUBLICATION.

With this issue the publication of the Monthly Climatological Report of this section ends. The data from this section will, in future, be printed in the Weather Review, issued monthly at the Central Office at Washington, D. C., in similar form, except that the number of stations showing the daily temperature records will be somewhat limited.

This plan has been adopted as a means of placing before those interested in such matters the complete climatic data for certain well defined areas, which, according to the present manner of publication, can only be found in the reports from several different sections.

The country has been divided into 12 great divisions, outlined chiefly according to the drainage areas, and the entire data for each division will be brought together and published in convenient form for use of those interested in climatic data.

The 12 separates containing data for the entire country will finally be brought together to form a single publication monthly.

All persons now receiving the monthly summaries will be furnished, if desired, with separates of the division in which they are located. The complete Review, being a comprehensive presentation of the principal features of the weather of each month, will be furnished to cooperating meteorological bureaus, societies, libraries, etc., upon direct application to the Chief U. S. Weather Bureau, Washington, D. C.

GENERAL SUMMARY.

The temperature was above the normal, the month having been the third warmest June of record. The highest maximum equalled the record; no low night temperatures were recorded, the lowest minimum having been the highest of record.

The precipitation was above the normal, being the fourth wettest June of record, the same month in 1900, 1903, and 1906 having received heavier rainfall. The geographical distribution was poor, the extreme western portion having excessive amounts, and the southern coast section received less than 2 inches, or only about one-third the normal amount. The percentage of sunshine was below the normal.

TEMPERATURE.

The mean temperature was 79.2°, which is 1.2° above the normal. The highest local mean was 81.4° at Beaufort and Florence, the lowest was 75.1° at Greenville. The monthly extremes were 105° at Florence on the 27th, and 58° at Darlington on the 16th, making the State range 47°. The greatest local monthly range was 44° at Florence; the least was 24° at Charleston. The mean of the daily maximum temperatures was 90.5°, and of the daily minimum temperatures was 68.8°, making the average daily range 21.7°.

PRECIPITATION.

The average precipitation was 6.87 inches, which is 1.82 inches above the normal. The greatest local monthly amount was 12.42 inches at Anderson; the least was 1.64 inches at Charles-



ton. The greatest 24-hour rainfall was 4.90 inches at Blairs and Little Mountain on the 3d-4th. The average number of rainy days was 12, ranging from 6 days at Aiken, Allendale, and Chappells to 19 at Liberty.

**EXCESSIVE PRECIPITATION:** At Allendale on the 18th, 3.21 inches in 24 hours; at Anderson on the 3d, 3.79 inches in 24 hours; at Blackville on the 16th, 3.26 inches in 7 hours; at Blairs on the 3d-4th, 4.90 inches in 24 hours; at Camden (1) on the 3d, 2.57 inches in 13 hours; at Camden (2) on the 3d-4th, 3.70 inches in 19 hours; at Catawba on the 3d-4th, 3.90 inches in 24 hours; at Clemson College on the 3d, 3.85 inches in 24 hours; at Greenville on the 26th-27th, 3.04 inches in 24 hours; at Greenwood on the 3d-4th, 2.54 inches in 24 hours; at Heath Springs on the 3d, 3.56 inches in 24 hours; at Liberty on the 3d, 3.05 inches in 24 hours; at Little Mountain on the 3d, 4.90 inches in 24 hours; at Newberry on the 3d, 2.98 inches in 24 hours; at Pelzer on the 3d-4th, 3.46 inches in 24 hours; at St. Matthews on the 17th, 3.07 inches in 24 hours; at Saluda on the 3d, 3.07 inches in 24 hours; at Santuc on the 3d, 3.27 inches in 14 hours; at Spartanburg on the 3d-4th, 3.55 inches in 24 hours; at Trenton on the 3d, 2.83 inches in 24 hours; at Trial on the 21st, 3.35 inches in 1 hour and 30 minutes; at Walhalla on the 3d, 3.29 inches in 24 hours; at Winsboro on the 3d, 2.58 inches in 24 hours; at Winthrop College on the 3d, 3.48 inches in 24 hours.

#### WIND.

The prevailing wind was southwest at 21 stations, south at 10 stations, west at 7 stations, southeast at 6 stations, east at 2 stations, and north and northwest at 1 station each.

#### CLOUDINESS.

The average number of clear days was 10; of partly cloudy days 14, and of cloudy days 6.

#### River Gage Readings, June, 1909.

| Stations.       | Flood stage. | Mean. | Highest. | Date. | Lowest. | Date. |
|-----------------|--------------|-------|----------|-------|---------|-------|
| Blairs          | 14           | 5.5   | 10.5     | 5     | 1.8     | *21   |
| Calhoun Falls   | 15           | 4.6   | 11.7     | 4     | 3.0     | *2    |
| Camden          | 24           | 17.6  | 31.7     | 5     | 10.2    | 5     |
| Catawba         | 11           | 6.4   | 16.1     | 5     | 3.3     | 3     |
| Chappells       | 14           | 9.5   | 20.1     | *5    | 1.8     | 21    |
| Cheraw          | 27           | 13.1  | 31.2     | 6     | 4.0     | 26    |
| Columbia        | 15           | 6.4   | 22.0     | 5     | 3.0     | *1    |
| Conway          | 7            | 4.8   | 6.0      | *5    | 2.5     | 30    |
| Effingham       | 12           | 7.0   | 12.2     | 13    | 3.8     | 30    |
| Ferguson        | 12           | 11.5  | 15.0     | 10    | 1.7     | 4     |
| Kingsree        | 12           | 4.0   | 8.0      | 26    | 1.0     | 12    |
| Mc Holly, N. C. | 15           | 3.2   | 10.1     | 5     | 2.0     | *1    |
| Pelzer          | 7            | 5.3   | 16.2     | 4     | 3.8     | 24    |
| Rimick          | 12           | 14.8  | 21.8     | 9     | 12.6    | 28    |
| Smiths Mills    | 16           | 13.0  | 15.8     | *17   | 11.5    | 8     |

\*Oonther dates also.

#### CLIMATOLOGY OF SUMMERVILLE, S. C.

##### Temperature.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|------|------|------|------|------|-------|-------|------|-------|------|------|------|-------|
| 1898. | 48   | 48   | 59   | 60   | 73   | 78    | 79    | 78   | 75    | 64   | 54   | 50   | 64.1  |
| 1899. | 48   | 49   | 54   | 65   | 69   | 75    | 80    | 82   | 73    | 66   | 57   | 48   | 64.4  |
| 1900. | 48   | 46   | 56   | 58   | 72   | 76    | 79    | 77   | 74    | 61   | 50   | 48   | 62.6  |
| 1901. | 47   | 44   | 57   | 62   | 73   | 77    | 82    | 78   | 72    | 66   | 61   | 50   | 64.1  |
| 1902. | 47   | 52   | 62   | 61   | 70   | 74    | 79    | 80   | 72    | 62   | 52   | 44   | 63.0  |
| 1903. | 40   | 45   | 60   | 60   | 70   | 76    | 79    | 77   | 71    | 61   | 53   | 42   | 62.1  |
| 1904. | 44   | 43   | 59   | 64   | 74   | 77    | 79    | 77   | 76    | 66   | 57   | 48   | 63.7  |
| 1905. | 51   | 49   | 56   | 66   | 71   | 80    | 79    | 81   | 79    | 64   | 56   | 50   | 65.1  |
| 1907. | 57   | 50   | 66   | 59   | 72   | 77    | 80    | 80   | 79    | 64   | 56   | 50   | 65.9  |
| 1908. | 43   | 48   | 64   | 69   | 73   | 77    | 80    | 79   | 74    | 64   | 59   | 54   | 65.9  |
| M'ns  | 47.7 | 47.5 | 57.3 | 62.5 | 71.8 | 76.8  | 79.8  | 79.1 | 75.0  | 64.5 | 55.7 | 48.4 | 64.0  |

##### Precipitation.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug.  | Sept. | Oct. | Nov. | Dec. | Ann'l |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|-------|
| 1898. |      |      |      |      |      |       | 7.17  | 11.27 | 3.85  | 7.66 | 6.27 | 3.70 | 6.27  |
| 1899. | 5.11 | 5.43 | 2.26 | 4.51 | 2.22 | 5.39  | 5.60  | 15.82 | 4.12  | 5.44 | 2.15 | 1.82 | 58.27 |
| 1900. | 3.31 | 5.58 | 2.81 | 6.14 | 2.51 | 10.59 | 4.88  | 3.29  | 4.68  | 5.00 | 1.99 | 6.53 | 57.31 |
| 1901. | 2.93 | 3.44 | 3.00 | 4.50 | 4.23 | 7.64  | 5.15  | 7.78  | 0.91  | 1.03 | 0.96 | 2.36 | 44.60 |
| 1902. | 1.24 | 4.65 | 3.29 | 1.19 | 3.25 | 2.81  | 5.40  | 6.82  | 5.56  | 5.13 | 7.01 | 4.23 | 50.57 |
| 1903. | 4.90 | 4.31 | 3.99 | 2.65 | 5.78 | 7.37  | 3.13  | 7.59  | 4.75  | 3.36 | 1.91 | 2.60 | 51.44 |
| 1904. | 4.78 | 4.87 | 3.92 | 0.87 | 2.77 | 2.97  | 8.44  | 8.68  | 2.81  | 1.64 | 3.09 | 1.64 | 46.47 |
| 1905. | 1.55 | 3.72 | 3.19 | 3.35 | 4.05 | 2.12  | 0.84  | 7.61  | 3.66  | 2.16 | 1.46 | 0.00 | 46.31 |
| 1906. | 4.57 | 3.00 | 3.71 | 1.55 | 2.32 | 3.96  | 11.27 | 0.26  | 4.78  | 6.24 | 0.70 | 3.80 | 59.43 |
| 1907. | 0.95 | 2.11 | 3    | 5.48 | 2.85 | 3.70  | 5.35  | 7.35  | 6.31  | 0.97 | 2.12 | 0.60 | 44.70 |
| 1908. | 4.18 | 6.07 | 4.64 | 6.44 | 5.14 | 5.91  | 4.89  | 9.98  | 2.62  | 2.35 | 1.26 | 1.98 | 56.02 |
| M'ns  | 3.35 | 4.38 | 3.11 | 3.73 | 3.59 | 5.75  | 6.37  | 8.32  | 4.02  | 3.76 | 2.63 | 3.75 | 52.62 |

#### Extremes of Temperature and Precipitation.

| Month.    | Temperature.          |       |                      |       | Precipitation.    |       |                |       |
|-----------|-----------------------|-------|----------------------|-------|-------------------|-------|----------------|-------|
|           | Highest monthly mean. | Year. | Lowest monthly mean. | Year. | Greatest monthly. | Year. | Least monthly. | Year. |
| January   | 57                    | 1907  | 40                   | 1904  | 5.11              | 1899  | 0.95           | 1907  |
| February  | 52                    | 1903  | 43                   | 1905  | 6.67              | 1908  | 2.11           | 1907  |
| March     | 66                    | 1907  | 54                   | 1900  | 4.84              | 1908  | 0.93           | 1907  |
| April     | 69                    | 1908  | 58                   | 1901  | 6.54              | 1908  | 0.87           | 1904  |
| May       | 74                    | 1905  | 69                   | 1900  | 3.78              | 1904  | 2.22           | 1899  |
| June      | 80                    | 1906  | 74                   | 1903  | 10.59             | 1900  | 2.12           | 1905  |
| July      | 82                    | 1902  | 79                   | *1899 | 13.27             | 1906  | 3.13           | 1903  |
| August    | 82                    | 1900  | 77                   | *1901 | 15.82             | 1899  | 3.29           | 1900  |
| September | 71                    | *1906 | 72                   | *1902 | 6.33              | 1907  | 0.91           | 1901  |
| October   | 68                    | 1900  | 62                   | 1903  | 7.66              | 1908  | 0.97           | 1907  |
| November  | 61                    | 1902  | 54                   | 1898  | 7.01              | 1902  | 0.70           | 1906  |
| December  | 54                    | 1908  | 42                   | 1904  | 6.60              | 1907  | 1.64           | 1904  |

#### COMPARATIVE JUNE DATA FOR SOUTH CAROLINA.

| Year.     | Temperature. |               |               |          |          |          | Precipitation.    |                   |                |                      | Number rainy days. | Prevailing wind direction. |
|-----------|--------------|---------------|---------------|----------|----------|----------|-------------------|-------------------|----------------|----------------------|--------------------|----------------------------|
|           | Mean.        | Mean maximum. | Mean minimum. | Maximum. | Minimum. | Average. | Greatest Monthly. |                   | Least Monthly. |                      |                    |                            |
|           |              |               |               |          |          |          | Amount.           | Place.            | Amount.        | Place.               |                    |                            |
| 1894..... | 77.0         | 88.8          | 65.9          | 105      | 41       | 3.91     | 9.20              | McCormick.....    | 0.1            | Kingstree.....       | 8                  | SW.                        |
| 1895..... | 78.2         | 89.0          | 68.2          | 105      | 50       | 3.04     | 7.04              | Camden.....       | 0.1            | Shaw's Fork.....     | 8                  | SW.                        |
| 1896..... | 77.0         | 87.6          | 68.3          | 102      | 52       | 5.42     | 10.45             | Georgetown.....   | 1.94           | Clemson College..... | 12                 | SW.                        |
| 1897..... | 79.2         | 89.9          | 68.8          | 103      | 49       | 5.44     | 11.75             | Pinopolis.....    | 1.32           | Mt. Carmel.....      | 17                 | SW.                        |
| 1898..... | 79.7         | 91.5          | 67.9          | 105      | 55       | 4.15     | 10.68             | Pinopolis.....    | 1.58           | Central.....         | 8                  | SW.                        |
| 1899..... | 79.4         | 90.5          | 68.3          | 105      | 48       | 3.89     | 8.55              | Blackville.....   | 1.38           | Santee.....          | 8                  | SW.                        |
| 1900..... | 76.2         | 85.0          | 67.3          | 97       | 52       | 7.94     | 15.43             | Holland.....      | 4.15           | Trenton.....         | 14                 | SW.                        |
| 1901..... | 76.7         | 86.0          | 67.4          | 102      | 48       | 6.55     | 11.02             | Pinopolis.....    | 3.60           | Walhalla.....        | 12                 | SW.                        |
| 1902..... | 78.5         | 89.6          | 67.4          | 105      | 52       | 4.48     | 8.11              | Trenton.....      | 1.39           | Cheraw.....          | 9                  | SW.                        |
| 1903..... | 74.2         | 84.1          | 64.2          | 96       | 42       | 8.09     | 18.42             | Stateburg.....    | 3.95           | Due West.....        | 14                 | SW.                        |
| 1904..... | 77.0         | 88.7          | 65.4          | 102      | 48       | 4.06     | 11.17             | Effingham.....    | 0.55           | Aiken.....           | 8                  | SW.                        |
| 1905..... | 78.9         | 89.9          | 67.9          | 101      | 43       | 1.02     | 6.30              | Walhalla.....     | 0.17           | Little Mountain..... | 6                  | SW.                        |
| 1906..... | 78.4         | 88.5          | 68.2          | 102      | 52       | 8.88     | 16.13             | Smiths Mills..... | 4.28           | Greenville.....      | 12                 | SW.                        |
| 1907..... | 75.4         | 86.1          | 64.8          | 99       | 47       | 5.92     | 12.38             | Darlington.....   | 2.22           | Clemson College..... | 10                 | SW.                        |
| 1908..... | 76.6         | 86.9          | 66.4          | 100      | 48       | 4.90     | 9.10              | Walterboro.....   | 1.08           | Smiths Mills.....    | 9                  | SW.                        |
| 1909..... | 79.2         | 90.5          | 68.8          | 105      | 58       | 6.87     | 12.42             | Anderson.....     | 1.64           | Charleston.....      | 12                 | SW.                        |



## CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE, 1909.

| STATIONS.                 | Counties.    | Elevation<br>feet | Length of<br>record<br>(years.) | Temperature—in degrees Fahrenheit. |                               |          |       |         |       | Precipitation—Inches.    |        |                               |                          |                             |                       | Sky.                  |                               |                        |       |   |  | Prevailing<br>direction<br>of wind. | Observers. |
|---------------------------|--------------|-------------------|---------------------------------|------------------------------------|-------------------------------|----------|-------|---------|-------|--------------------------|--------|-------------------------------|--------------------------|-----------------------------|-----------------------|-----------------------|-------------------------------|------------------------|-------|---|--|-------------------------------------|------------|
|                           |              |                   |                                 | Mean.                              | Departure from<br>the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily<br>range. | Total. | Departure from<br>the normal. | Greatest in 24<br>hours. | Total snowfall<br>unmelted. | Number rainy<br>days. | Number clear<br>days. | Number partly<br>cloudy days. | Number cloudy<br>days. |       |   |  |                                     |            |
| Aiken                     | Aiken        | 565               | 25                              | 80.8                               | + 2.1                         | 90       | 14    | 64      | *6    | 29                       | 4.27   | -0.11                         | 1.78                     | 0                           | 6                     | 25                    | 4                             | 1                      | se.   | C. F. McGahan, M. D.                    |  |                                     |            |
| Allendale                 | Barnwell     | 186               | 27                              | 80.4                               | + 1.1                         | 97       | 14    | 61      | 20    | 27                       | 9.25   | -4.06                         | 3.21                     | 0                           | 6                     | 19                    | 6                             | 5                      | ..... | A. R. Hiers.                            |  |                                     |            |
| Anderson                  | Anderson     | 704               | 8                               | 76.6                               | + 0.6                         | 91       | 11    | 61      | 6     | 27                       | 12.42  | +7.14                         | 3.79                     | 0                           | 15                    | 14                    | 0                             | 16                     | w.    | H. H. Russell.                          |  |                                     |            |
| Augusta, Ga.              | Richmond     | 180               | 38                              | 79.4                               | + 1.3                         | 93       | 14    | 66      | 6     | 22                       | 5.19   | -0.64                         | 1.71                     | 0                           | 11                    | 4                     | 15                            | 11                     | se.   | U. S. Weather Bureau,<br>J. T. Garrett. |  |                                     |            |
| Barksdale                 | Laurens      | 134               | 8                               | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                       | .....                 | .....                 | .....                         | .....                  | ..... | E. J. Hite.                             |  |                                     |            |
| Batesburg                 | Lexington    | 656               | 21                              | 76.6                               | + 1.5                         | 90       | 11    | 64      | 9     | 23                       | 6.64   | -1.77                         | 1.66                     | 0                           | 12                    | 16                    | 6                             | 8                      | n.    | Miss Lillian H. Rice.                   |  |                                     |            |
| Beaufort                  | Beaufort     | 20                | 23                              | 81.4                               | + 1.7                         | 94       | *7    | 65      | 8     | 26                       | 1.77   | -3.42                         | 0.35                     | 0                           | 13                    | 3                     | 22                            | 5                      | se.   | C. S. McCall.                           |  |                                     |            |
| Bennettsville             | Marlboro     | 151               | 8                               | 79.6                               | .....                         | 96       | 2     | 60      | 16    | 26                       | 5.48   | .....                         | 2.40                     | 0                           | 13                    | 13                    | 15                            | 2                      | se.   | Miss M. E. Lange.                       |  |                                     |            |
| Blackville                | Barnwell     | 296               | 21                              | 80.2                               | + 1.5                         | 98       | 10    | 63      | 7     | 29                       | 7.97   | +2.27                         | 3.26                     | 0                           | 11                    | 12                    | 12                            | 6                      | se.   | T. S. McMeekin.                         |  |                                     |            |
| Blairs                    | Fairfield    | 293               | 4                               | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 9.02   | .....                         | 4.90                     | 0                           | 8                     | 20                    | 4                             | 5                      | ..... | B. O. Evans.                            |  |                                     |            |
| Bowman                    | Orangeburg   | 160               | 8                               | 79.1                               | .....                         | 100      | 13    | 59      | 8     | 36                       | 6.32   | .....                         | 1.19                     | 0                           | 15                    | 17                    | 10                            | 3                      | sw.   | P. J. Miller.                           |  |                                     |            |
| Calhoun Falls             | Abbeville    | 508               | 16                              | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 7.38   | +2.69                         | 2.15                     | 0                           | 9                     | 25                    | 0                             | 5                      | sw.   | J. B. Mickle.                           |  |                                     |            |
| Camden (1)                | Kershaw      | 3                 | 3                               | 78.4                               | .....                         | 94       | 2     | 64      | 6     | 25                       | 6.45   | .....                         | 2.53                     | 0                           | 11                    | 17                    | 10                            | 3                      | sw.   | W. C. Brown.                            |  |                                     |            |
| Camden (2)                | Kershaw      | 222               | 43                              | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 8.00   | -3.72                         | 3.70                     | 0                           | 11                    | 19                    | 10                            | 1                      | sw.   | Jas. C. Faris.                          |  |                                     |            |
| Catawba                   | York         | 562               | 4                               | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 10.76  | .....                         | 3.90                     | 0                           | 12                    | 16                    | 10                            | 4                      | w.    | Wm. S. Middleton.                       |  |                                     |            |
| Chappell                  | Newberry     | 402               | 4                               | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 2.83   | .....                         | 0.84                     | 0                           | 6                     | 18                    | 7                             | 5                      | sw.   | Prof. Jno. N. Hook.                     |  |                                     |            |
| Charleston                | Charleston   | 48                | 39                              | 80.4                               | + 1.9                         | 92       | 13    | 68      | 6     | 21                       | 1.64   | -3.75                         | 0.64                     | 0                           | 9                     | 9                     | 15                            | 6                      | ..... | U. S. Weather Bureau.                   |  |                                     |            |
| Charlotte, N. C.          | Mecklenburg  | 773               | 31                              | 76.6                               | + 1.1                         | 94       | 25    | 63      | 19    | 24                       | 7.04   | +2.58                         | 3.86                     | 0                           | 14                    | 3                     | 22                            | 5                      | sw.   | U. S. Weather Bureau.                   |  |                                     |            |
| Cheraw (1)                | Chesterfield | 144               | 21                              | 78.6                               | + 1.2                         | 94       | 2     | 64      | *6    | 28                       | 5.08   | -0.35                         | 1.70                     | 0                           | 12                    | 9                     | 10                            | 11                     | ..... | W. R. Godfrey.                          |  |                                     |            |
| Cheraw (2)                | Chesterfield | 144               | 16                              | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 4.70   | -1.19                         | 1.71                     | 0                           | 13                    | 8                     | 17                            | 5                      | e.    | Jno. H. Powe.                           |  |                                     |            |
| Clarks Hill               | Edgefield    | 456               | 7                               | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 4.85   | .....                         | 1.75                     | 0                           | 9                     | .....                 | .....                         | .....                  | ..... | Wm. S. Middleton.                       |  |                                     |            |
| Clemson College           | Oconee       | 850               | 18                              | 75.7                               | + 0.3                         | 88       | 26    | 63      | 6     | 21                       | 10.44  | +6.46                         | 3.85                     | 0                           | 14                    | 18                    | 7                             | 5                      | ..... | Prof. Jno. N. Hook.                     |  |                                     |            |
| Columbia                  | Richland     | 351               | 22                              | 79.0                               | + 0.8                         | 94       | 14    | 65      | 6     | 24                       | 6.07   | +2.49                         | 2.15                     | 0                           | 13                    | 3                     | 15                            | 12                     | sw.   | U. S. Weather Bureau.                   |  |                                     |            |
| Conway                    | Horry        | 25                | 17                              | 79.1                               | + 3.2                         | 95       | 12    | 61      | *8    | 25                       | 5.29   | +0.31                         | 1.49                     | 0                           | 11                    | 11                    | 4                             | 15                     | sw.   | P. C. Quattlebaum.                      |  |                                     |            |
| Darlington                | Darlington   | 175               | 14                              | 79.0                               | .....                         | 95       | *2    | 58      | 16    | 29                       | 6.35   | -0.02                         | 1.89                     | 0                           | 10                    | .....                 | .....                         | .....                  | ..... | D. C. McCall.                           |  |                                     |            |
| Dillon                    | Marion       | 100               | 5                               | 79.1                               | + 1.9                         | 95       | 14    | 61      | 8     | 27                       | 7.33   | +2.09                         | 2.31                     | 0                           | 13                    | .....                 | .....                         | .....                  | ..... | A. E. Rowell.                           |  |                                     |            |
| Effingham                 | Florence     | 106               | 17                              | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 9.35   | -3.27                         | 2.00                     | 0                           | 10                    | 18                    | 5                             | 7                      | sw.   | H. B. McCall.                           |  |                                     |            |
| Ferguson                  | Berkeley     | 51                | 2                               | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 5.31   | .....                         | 0.96                     | 0                           | 12                    | 22                    | 2                             | 6                      | w.    | D. B. Gilliland, Jr.                    |  |                                     |            |
| Florence                  | Florence     | 136               | 21                              | 81.4                               | + 2.8                         | 105      | 27    | 61      | 8     | 37                       | 3.42   | -0.11                         | 0.64                     | 0                           | 12                    | 17                    | 4                             | 9                      | sw.   | H. K. Gilbert.                          |  |                                     |            |
| Georgetown                | Georgetown   | 12                | 16                              | 79.9                               | + 1.4                         | 95       | 13    | 64      | 7     | 24                       | 4.62   | -0.91                         | 1.41                     | 0                           | 10                    | 9                     | 17                            | 4                      | ..... | Wm. Alden James.                        |  |                                     |            |
| Greenville                | Greenville   | 989               | 17                              | 75.1                               | + 1.9                         | 88       | 25    | 63      | *1    | 22                       | 10.35  | -5.17                         | 3.04                     | 0                           | 14                    | 17                    | 4                             | 9                      | sw.   | Mrs. S. A. Crittenden.                  |  |                                     |            |
| Greenwood                 | Greenwood    | 671               | 21                              | 78.0                               | + 0.2                         | 95       | *12   | 63      | 4     | 27                       | 5.83   | +1.25                         | 2.54                     | 0                           | 10                    | 24                    | 0                             | 7                      | w.    | M. M. Calhoun.                          |  |                                     |            |
| Heath Springs             | Lancaster    | 568               | 8                               | 78.6                               | .....                         | 95       | *26   | 63      | 9     | 30                       | 7.38   | .....                         | 3.50                     | 0                           | 14                    | 16                    | 9                             | 5                      | w.    | J. A. Weaver.                           |  |                                     |            |
| Jacksonboro               | Colleton     | 13                | 1                               | 78.8                               | .....                         | 94       | *11   | 60      | 8     | 26                       | 6.69   | .....                         | 2.01                     | 0                           | 11                    | 7                     | 13                            | 10                     | se.   | W. E. Haskell, jr.                      |  |                                     |            |
| King-tree (1)             | Williamsburg | 54                | 21                              | 77.7                               | + 1.6                         | 92       | *11   | 65      | 8     | 21                       | 6.39   | +1.01                         | 1.80                     | 0                           | 11                    | 21                    | 5                             | 4                      | ..... | J. A. Scott.                            |  |                                     |            |
| Kingstree (2)             | Williamsburg | 54                | 15                              | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 6.36   | +1.07                         | 1.80                     | 0                           | 11                    | 21                    | 5                             | 4                      | ..... | A. O. Matthews.                         |  |                                     |            |
| Liberty                   | Pickens      | 960               | 15                              | 77.0                               | + 0.8                         | 93       | *11   | 60      | 14    | 27                       | 8.10   | -3.52                         | 3.05                     | 0                           | 19                    | 7                     | 22                            | 1                      | sw.   | Jno. T. Boggs.                          |  |                                     |            |
| Little Mountain           | Newberry     | 711               | 16                              | 77.2                               | + 0.8                         | 92       | 11    | 65      | *1    | 24                       | 8.86   | -4.61                         | 4.90                     | 0                           | 14                    | 13                    | 13                            | 4                      | sw.   | J. M. Sease, M. D.                      |  |                                     |            |
| Newberry                  | Newberry     | 502               | 5                               | 79.2                               | + 1.7                         | 96       | *25   | 63      | 6     | 26                       | 7.22   | +2.86                         | 2.98                     | 0                           | 16                    | 2                     | 14                            | 14                     | sw.   | W. G. Peterson.                         |  |                                     |            |
| Pelzer                    | Anderson     | 873               | 4                               | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 11.42  | .....                         | 3.46                     | 0                           | 16                    | 12                    | 9                             | 9                      | w.    | John M. Ward.                           |  |                                     |            |
| Pinopolis                 | Berkeley     | 54                | 16                              | 77.8                               | + 1.5                         | 92       | *12   | 66      | 9     | .....                    | 7.26   | -1.41                         | 1.40                     | 0                           | 14                    | 2                     | 18                            | 10                     | nw.   | Miss E. P. Ravenel.                     |  |                                     |            |
| St. George                | Dorchester   | 109               | 21                              | 81.0                               | + 2.7                         | 95       | 11    | 65      | 9     | 23                       | 8.00   | +2.81                         | 2.10                     | 0                           | 12                    | 22                    | 0                             | 8                      | ..... | G. T. Lewis.                            |  |                                     |            |
| St. Matthews              | Calhoun      | 209               | 21                              | 70.4                               | + 1.5                         | 91       | 13    | 63      | 8     | 24                       | 9.48   | +3.56                         | 3.07                     | 0                           | 11                    | 18                    | 0                             | 12                     | ..... | J. S. Wannamaker.                       |  |                                     |            |
| Saluda                    | Saluda       | 530               | 7                               | 78.7                               | .....                         | 96       | *1    | 64      | 9     | 28                       | 7.62   | .....                         | 3.07                     | 0                           | 13                    | 21                    | 6                             | 3                      | sw.   | Alvin Etheridge.                        |  |                                     |            |
| Santee                    | Union        | 512               | 15                              | 77.8                               | + 1.6                         | 96       | *25   | 63      | *2    | 29                       | 7.54   | +3.55                         | 3.65                     | 0                           | 11                    | 1                     | 23                            | 6                      | sw.   | E. W. Jeter.                            |  |                                     |            |
| Savannah, Ga.             | Chatham      | 71                | 39                              | 80.1                               | + 1.9                         | 96       | 13    | 68      | 8     | 22                       | 2.22   | -3.81                         | 0.77                     | 0                           | 9                     | 10                    | 11                            | 9                      | sw.   | U. S. Weather Bureau.                   |  |                                     |            |
| Smiths Mill               | Williamsburg | 62                | 14                              | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | 6.10   | +0.19                         | 1.18                     | 0                           | 13                    | 21                    | 1                             | 7                      | ..... | W. G. Walker.                           |  |                                     |            |
| Society Hill              | Darlington   | 132               | 18                              | 76.8                               | + 1.7                         | 93       | 2     | 65      | *5    | 23                       | 9.87   | +4.27                         | 2.30                     | 0                           | 10                    | 17                    | 5                             | 8                      | sw.   | Major J. J. Lucas.                      |  |                                     |            |
| Spartanburg               | Spartanburg  | 875               | 18                              | 78.2                               | + 1.4                         | 98       | 26    | 62      | *5    | 28                       | 11.24  | +0.32                         | 3.55                     | 0                           | 14                    | 10                    | 2                             | 18                     | ..... | F. P. Robinson.                         |  |                                     |            |
| Stateburg                 | Sumter       | 500               | 32                              | .....                              | .....                         | .....    | ..... | .....   | ..... | .....                    | .....  | .....                         | .....                    | .....                       | .....                 | .....                 | .....                         | .....                  | ..... | W. W. Anderson, M. D.                   |  |                                     |            |
| Summerville               | Dorchester   | 75                | 12                              | 79.0                               | + 2.2                         | 97       | 12    | 60      | 8     | 30                       | 4.17   | -1.58                         | 1.28                     | 0                           | 17                    | 2                     | 26                            | 2                      | sw.   | Miss E. H. Gadsden.                     |  |                                     |            |
| Trenton                   | Edgefield    | 620               | 16                              | 77.6                               | + 1.1                         | 94       | *26   | 62      | 15    | 28                       | 5.55   | +1.01                         | 2.83                     | 0                           | 10                    | 5                     | 24                            | 1                      | ..... | C. A. Long.                             |  |                                     |            |
| Trial                     | Berkeley     | 85                | 23                              | 78.2                               | + 1.5                         | 95       | 14    | 63      | *6    | 27                       | 6.87   | +1.14                         | 3.35                     | 0                           | 15                    | 3                     | 4                             | 23                     | sw.   | Etsell Gaillard.                        |  |                                     |            |
| Walhalla                  | Oconee       | 1061              | 18                              | 75.8                               | + 1.1                         | 91       | *11   | 60      | 6     | 28                       | 7.37   | -2.43                         | 3.29                     | 0                           | 14                    | 2                     | 17                            | 11                     | w.    | N. L. Fant.                             |  |                                     |            |
| Walterboro                | Colleton     | 69                | 5                               | 77.6                               | .....                         | 96       | 13    | 62      | 8     | 30                       | 3.67   | .....                         | 0.65                     | 0                           | 13                    | 13                    | 15                            | 1                      | ..... | J. A. Westerberg.                       |  |                                     |            |
| Wilmington, N. C.         | New Hanover  | 78                | 39                              | 78.0                               | + 2.5                         | 91       | 1     | 61      | 7     | 22                       | 2.57   | 3.05                          | 1.50                     | 0                           | 11                    | 4                     | 20                            | 6                      | sw.   | U. S. Weather Bureau.                   |  |                                     |            |
| Windsboro                 | Fairfield    | 545               | 20                              | 78.0                               | + 1.3                         | 93       | *24   | 64      | 6     | 22                       | 7.75   | +3.30                         | 2.58                     | 0                           | 14                    | 11                    | 17                            | 2                      | sw.   | John W. Seigler.                        |  |                                     |            |
| Winthrop College          | York         | 690               | 10                              | 77.7                               | + 2.4                         | 94       | *25   | 64      | 19    | 23                       | 9.78   | .....                         | 3.48                     | 0                           | 10                    | 19                    | 9                             | 2                      | se.   | E. R. Rivers.                           |  |                                     |            |
| Yemassee                  | Hampton      | 23                | 14                              | 80.6                               | + 0.9                         | 96       | *1    | 61      | 8     | 30                       | 8.27   | +2.17                         | 2.20                     | 0                           | 10                    | 21                    | 2                             | 7                      | ..... | J. G. Hutson.                           |  |                                     |            |
| Means, extremes and dates |              |                   |                                 | 79.2                               | + 1.2                         | 105      | 27    | 58      | 16    | 37                       | 6.87   | +1.82                         | 4.90                     | 0                           | 12                    | 10                    | 14                            | 6                      | sw.   |   |  |                                     |            |

NOTE.—All records are used in determining State means, but the mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. † Maximum thermometer not standard. ‡ Minimum thermometer not standard. § Exposed non-registering thermometer not standard. \* On other dates also. a, Indicates 1 day missing; b, 2 days, etc. ° The state of sky at 8 a. m. not used in averages.



DAILY MAXIMUM AND MINIMUM TEMPERATURES DURING JUNE, 1909.

[illegible]

\* At these stations thermometers are read in the morning; the maximum temperatures then observed appear in the maximum column for the preceding day on which it nearly always occurs. The data for Sindore and Mendota taken in March and April 1904 are given in Table 1.

a, 100; b, 102; c, 105.

11, 100; b, 102; c, 105.



# TOTAL PRECIPITATION FOR JUNE 1900



## DAILY PRECIPITATION FOR SOUTH CAROLINA, JUNE, 1909.

| STATIONS.        | DAY OF MONTH. |      |       |      |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     | TOTAL. |       |       |
|------------------|---------------|------|-------|------|------|-----|---|---|---|----|------|-----|------|-----|-----|-----|------|------|------|------|------|-----|-----|------|-----|-----|----|----|------|------|-----|--------|-------|-------|
|                  | 1             | 2    | 3     | 4    | 5    | 6   | 7 | 8 | 9 | 10 | 11   | 12  | 13   | 14  | 15  | 16  | 17   | 18   | 19   | 20   | 21   | 22  | 23  | 24   | 25  | 26  | 27 | 28 | 29   | 30   | 31  |        |       |       |
| Aiken            |               |      | 1.67  | .09  |      |     |   |   |   |    |      |     |      |     |     |     | 1.78 | .22  |      |      |      |     | .05 |      |     |     |    |    |      |      |     |        | 4.27  |       |
| Allendale*       |               |      |       | .80  | .10  |     |   |   |   |    |      |     |      |     |     |     |      | .30  | 3.21 |      | 2.41 |     |     |      |     |     |    |    |      |      |     |        | 9.25  |       |
| Anderson         | 1.49          | 3.79 | 1.01  |      |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        | 12.42 |       |
| Augusta, Ga.     | T.            | 1.39 | .01   |      |      |     |   |   |   |    |      | T.  | T.   | 15  | .87 | .05 | T.   | .34  | .04  |      | .04  | .72 | .06 | .77  | .09 | .01 |    |    | 2.43 | 2.26 | .78 |        |       | 5.19  |
| Barksdale        |               |      |       |      |      |     |   |   |   |    |      |     |      |     |     |     |      | .84  | .87  | .40  | .18  | T.  | .05 | 1.37 | .01 | T.  |    |    |      |      |     |        |       |       |
| Batesburg*       | .02           |      | .15   | 1.66 |      |     |   |   |   |    |      | T.  | 1.21 | 19  | .67 |     |      |      | 62   | 1.12 |      |     | T.  | .10  | .31 | .05 |    |    |      |      |     |        |       |       |
| Beaufort         |               |      | .17   | .01  |      |     |   |   |   |    |      | .20 |      |     | 15  | .09 | .05  | .23  | .35  |      | .04  | .34 |     |      | .04 |     |    |    |      |      |     |        | 6.64  |       |
| Bennettsville    | T.            | 2.40 | .28   |      |      |     |   |   |   |    |      | .20 | .02  | .06 |     |     | .31  | .04  | .47  |      |      |     |     | .16  | T.  |     |    |    |      |      |     |        | 1.77  |       |
| Blackville*      |               |      | 10.00 | .07  | T.   |     |   |   |   |    |      | .37 | .36  |     |     |     |      |      |      |      |      | T.  |     | .06  | T.  |     |    |    |      |      |     |        | 5.48  |       |
| Blairs*          | .12           |      | 1.10  | 4.90 |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     | .16  | T.  |     |    |    |      |      |     |        | 7.97  |       |
| Bowman           |               |      | .27   | .40  | .14  |     |   |   |   |    |      | .20 |      |     |     |     |      |      |      |      |      |     |     | .16  | T.  |     |    |    |      |      |     |        | 9.02  |       |
| Calhoun Falls*   |               |      | 2.15  | 2.09 | .13  | .36 |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     | .12  |     |     |    |    |      |      |     |        | 6.32  |       |
| Camden (1)       |               |      | 2.15  | 2.09 | .13  | .36 |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     | .12  |     |     |    |    |      |      |     |        | 7.97  |       |
| Camden (2)*      | T.            | 2.57 | .50   |      |      |     |   |   |   |    |      | .80 | .08  | .04 | .00 | .00 | .06  | 1.80 |      |      |      | T.  |     |      |     |     |    |    |      |      |     |        | 7.38  |       |
| Catawba*         |               |      | 1.70  | 3.90 | .06  | .64 |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        | 6.45  |       |
| Chappells*       |               |      | .84   | .76  |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 8.00  |
| Charleston       | T.            | .16  | T.    | T.   | .22  |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 10.76 |
| Charlotte, N. C. |               |      | .03   | 3.78 | .19  | .14 |   |   |   |    | T.   | .05 |      | 1.  | .03 | .02 | .06  | T.   | .63  | .07  | .48  |     |     |      |     |     |    |    |      |      |     |        |       | 2.83  |
| Cheraw (1)*      |               |      |       | .42  | 1.70 |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 1.64  |
| Cheraw (2)*      |               |      |       | .42  | 1.71 |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 7.04  |
| Clarks Hill      |               |      |       | .42  | 1.71 |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 5.08  |
| Clemson College  |               |      |       | 1.75 | .32  |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 4.70  |
| Columbia         |               |      |       | 3.85 | .90  |     |   |   |   |    | 1.00 |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 4.85  |
| Conway*          |               |      | .04   | 1.94 | .04  |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 10.44 |
| Darlington       |               |      |       |      |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 6.07  |
| Dillon           |               |      | .02   | 1.40 |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 5.29  |
| Effingham*       |               |      | .03   | 1.29 |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 6.35  |
| Ferguson*        |               |      |       | .85  |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 7.33  |
| Florence*        |               |      | .40   |      | .80  |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 9.35  |
| Georgetown       |               |      |       |      |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 5.31  |
| Greenville*      | T.            |      | T.    | .33  |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 3.42  |
| Greenwood*       | .82           |      | 1.54  | 2.50 |      | .40 |   |   |   |    | .50  |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 4.62  |
| Heath Springs    | .21           |      | 1.56  | 2.54 |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 10.35 |
| Jacksonboro      |               |      | .03   | 3.56 | .02  | .46 |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 5.83  |
| Kingstree (1)*   |               |      |       | T.   | .35  |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 7.38  |
| Kingstree (2)*   |               |      |       |      | .90  | .20 |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 6.69  |
| Liberty          |               |      |       | .90  | .20  |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 6.39  |
| Little Mountain  |               |      | .25   | 3.05 | .50  |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 6.36  |
| Newberry         |               |      | .31   | 4.90 | .42  |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 8.10  |
| Pelzer*          |               |      | 1.45  | 2.98 | .03  | .01 |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 8.86  |
| Pinopolis        | .52           |      | 1.68  | 3.46 |      | .30 |   |   |   |    |      | .07 | .84  | .02 | .12 | .30 | .14  | .02  |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 7.22  |
| St. George*      |               |      |       | .20  | .10  | .06 |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 11.42 |
| St. Matthews*    |               |      |       |      |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 7.26  |
| Saluda           | .06           |      |       |      |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 8.00  |
| Santee           |               |      | 3.07  | .42  |      |     |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       | 9.48  |
| Savannah, Ga.    |               |      | .05   | 3.27 | .42  | .16 |   |   |   |    |      |     |      |     |     |     |      |      |      |      |      |     |     |      |     |     |    |    |      |      |     |        |       |       |

\*Precipitation measured at 8 a. m., and includes rainfall for preceding 24 hours. T. indicates trace, less than .01 inch.





















